

AD-A115 652

NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA SENSORS A--ETC F/G 12/1
ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATE--ETC(U)
APR 82 J J FRANZ

UNCLASSIFIED

NADC-77036-30

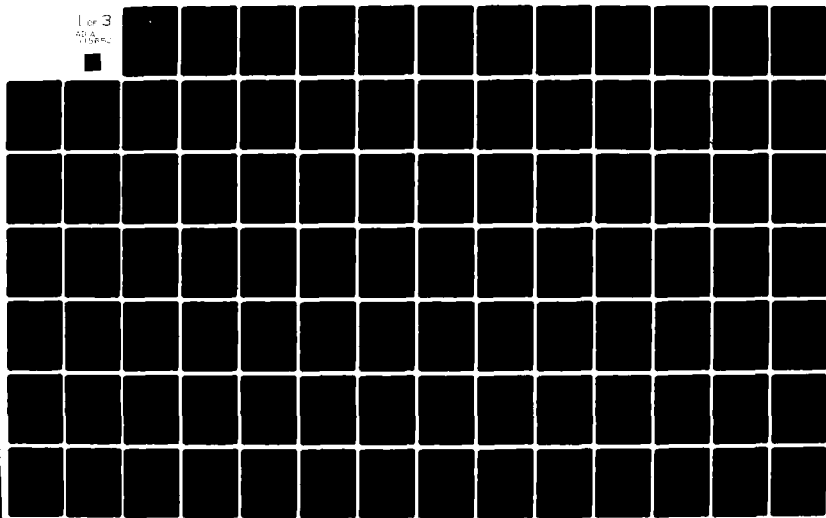
NL

1 of 3

AD-A115 652

UNCLASSIFIED

■



12



ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE
COVARIATES AND FORECAST CAPABILITY

Joseph J. Franz
Air Vehicle Technology Directorate
Naval Air Development Center
Warminster, Pennsylvania 18974

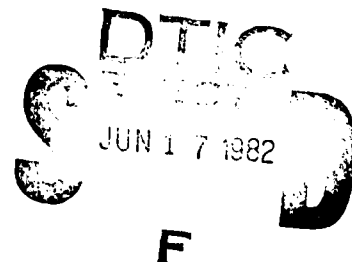
30 APRIL 1982

FINAL REPORT
AIRTASK NO. A5365360
Work Unit No. WR61003

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

Copy available to DTIC does not
permit fully legible reproduction

Prepared for
NAVAL AIR SYSTEMS COMMAND
Department of the Navy
Washington, D.C. 20361



AD A115652

DTIC FILE COPY

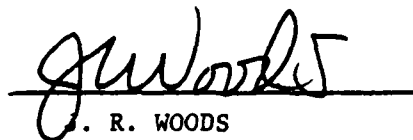
NOTICES

REPORT NUMBERING SYSTEM - The numbering of technical project reports issued by the Naval Air Development Center is arranged for specific identification purposes. Each number consists of the Center acronym, the calendar year in which the number was assigned, the sequence number of the report within the specific calendar year, and the official 2-digit correspondence code of the Command Office or the Functional Directorate responsible for the report. For example: Report No. NADC-78015-20 indicates the fifteenth Center report for the year 1978, and prepared by the Systems Directorate. The numerical codes are as follows:

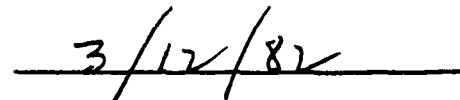
CODE	OFFICE OR DIRECTORATE
00	Commander, Naval Air Development Center
01	Technical Director, Naval Air Development Center
02	Comptroller
10	Directorate Command Projects
20	Systems Directorate
30	Sensors & Avionics Technology Directorate
40	Communication & Navigation Technology Directorate
50	Software Computer Directorate
60	Aircraft & Crew Systems Technology Directorate
70	Planning Assessment Resources
80	Engineering Support Group

PRODUCT ENDORSEMENT - The discussion or instructions concerning commercial products herein do not constitute an endorsement by the Government nor do they convey or imply the license or right to use such products.

APPROVED BY:


J. R. WOODS
CDR USN

DATE:



DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER NADC-77036-30	2. GOVT ACCESSION NO. AD-A115 652	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATES AND FORECAST CAPABILITY	5. TYPE OF REPORT & PERIOD COVERED Final Report	
7. AUTHOR(s) Joseph J. Franz	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Air Vehicle Technology Department (Code 3013) Naval Air Development Center Warminster, PA 18974	8. CONTRACT OR GRANT NUMBER(s)	
11. CONTROLLING OFFICE NAME AND ADDRESS Naval Air Systems Command Department of the Navy Washington, D.C. 20361	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS AIRTASK A5365360/001F/6WSL7- 00000; Work Unit WR61003	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	12. REPORT DATE 30 APR 1982	
	13. NUMBER OF PAGES 198	
	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Confidence Interval Correlation Parameter Covariance Method Probability Sampling Statistical Analysis		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A standard analysis of covariance computer program with multiple covariates has been modified to include data forecast capability, covariate correlation and residual analyses for total and treatment groups.		

DD FORM 1473
1 JAN 73EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-LF-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

SUMMARY

This report documents the modifications to a U.C.L.A. Biomedical Mathematics Department (BMD) Analysis-of-Covariance Statistical Computer Program. The computer code was revised by the NAVAIRDEVCON to increase the computational accuracy and formulate output solutions in a form more suitable to the solution of engineering type problems.

The Covariance Statistical Model was used to successfully formulate empirical correlation equations which relate vehicle aftend drag with the complicated external flow field, the propulsion system, and the aircraft design parameters.

The program and supporting subroutines are written in FORTRAN for use on a CDC 6600 Computer. The appendices of this report include a sample problem input/output listing, computer program listing, a program user's guide, and the Analysis-of-Covariance statistical model.

NADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY	1
INTRODUCTION	5
METHODOLOGY	6
DISCUSSION	7
PROGRAM DESCRIPTION	7
PROGRAM STRUCTURE	8
PROGRAM MODIFICATIONS	10
CONCLUSIONS	12
REFERENCES	13
APPENDIX A: SAMPLE INPUT/OUTPUT LISTING	A-1
APPENDIX B: COMPUTER PROGRAM LISTING	B-1
APPENDIX C: COMPUTER PROGRAM USER'S GUIDE	C-1
APPENDIX D: COMPUTATIONAL PROCEDURE	D-1

NADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

INTRODUCTION

Modifications to a U.C.L.A. Biomedical Mathematics Department Analysis-of-Covariance (BMD04V) Statistical Computer Program (reference (a)) were developed by NAVAIRDEVCEEN to successfully formulate empirical correlation equations which relate aircraft aftend drag with external flow field parameters and aircraft design parameters. The modifications to the computer code were developed during a NAVAIR sponsored Aft Fuselage Twin Nozzle Fighter-Type Aircraft Drag Project. The project involved the correlation of a large data base of aircraft fuselage drag measurements obtained from various wind tunnel fighter models which contained geometric and flight performance variations.

This report will describe the unique capabilities of the Covariance Analyses and the extensive improvements to the original computer code which make it a valuable tool for use in analyzing a variety of engineering problems.

METHODOLOGY

In general, the Analysis-of-Covariance statistical model can be applied to any engineering problem for which a data base of dependent and independent variables exists and for which a requirement exists to relate the variables through a set of empirical correlation equations. The Analysis-of-Covariance method is not a traditional multiple regression method although it can be degraded to provide all the output normally associated with a total regression. The Analysis-of-Covariance method permits the separation of covariate (independent variables) to allow correlation of the variate (dependent variable) with a single covariate. For example, the method can be used to independently synthesize the functional relationships between each and every independent variable and the related multidependent functional variable. A multiple regression method cannot filter out the multiple effects on a dependent variable which are contributed by several related independent variables. A multiple regression method can be used when only one independent variable exists or when the interdependence of the independent variables is known a priori.

A complete and detailed mathematical formulation of the Analysis-of-Covariance model can be found in any standard statistical text (i.e., references (b) and (c)). For the sake of completeness, a description of the computational procedure is provided in Appendix D.

DISCUSSION

PROGRAM DESCRIPTION

The computer program described in this report can be utilized to compute Analysis-of-Covariance information for one Analysis-of-Variance variable with multiple covariates and unequal treatment group sizes with forecast capability. The statistical method permits the user to designate treatment groups or subdivisions of case input data which demonstrate certain user defined levels consistent with the reduction of scatter of the variate or dependent variable. In addition, covariate parameters may be defined which are common to each treatment group and which reduce the scatter of the variate in each group. The proper covariate parameters for a given problem are those which filter out the common effects and increase the predominant dependence within the treatment groups. The provision for the subdivision of case data into treatment groups provides the Covariance Analysis with the unique capability to synthesize the functional relationship of each independent variable on the dependent variable. The program provides the capability of partitioning the case data into treatment groups through user defined boolean expressions, thus simplifying the subdivision of large input data problems.

The program also provides the capability of transformation of the covariate parameters into complex multivariable functions which may be instrumental in the reduction of the variance of the dependent variable. The term transgeneration is used to include transformations of input variables and creation of new variables prior to the computations performed by the program. By use of the transgeneration option, new variables may be created by performing algebraic, trigonometric, exponential, and logarithmic transformations on the original variables. These variables may either replace the old variables or they may be entirely new variables. For example, suppose that there are two original variables, variable 1 and variable 2. Then a third variable, variable 3, could be created by letting variable 3 be the square root of variable 2.

The program provides output of cross correlation matrices through which an indication can be formed of the independence of each of the covariate parameters. The capability of analyzing the cross correlation between covariate parameters permits the user to select covariates with the least interdependence and thus increase the accuracy of the statistical model. For example, if two covariates are highly correlated, the increased probability exists that either the covariates should be combined or one of the covariates should be removed from the analysis. The cross correlation matrices thus provide a means of filtering candidate covariates for inclusion in the Covariance Analysis.

The Analysis-of-Covariance program provides tables of covariance coefficients, standard errors, computed T-values, and confidence levels. A unique mathematical routine within the program structure calculates the confidence levels for each covariate based on the calculated T-values

and degrees of freedom. This eliminates the need for use of detailed statistical tables which is common for all other statistical methods. The confidence levels permit the user to evaluate the relative merit of each covariate parameter in reducing the total variation and thus assist in synthesizing the unique empirical correlation parameters.

Another unique feature provides output of tables of residual analysis which contain for each case: the variate, the estimated variate based on the covariate analysis, the residual and the percent variation in each treatment group. The residual tables are typically plotted, using any standard existing interactive computer technique, to obtain the scatter of data in each treatment group about the mean of the variates. The graphic residual variation provides a definitive representation of the precision attained in the selection of covariates and the trend of any errors in the analysis.

The program also provides the capability of introducing forecast data into the previously defined statistical model in order to test the precision accuracy. This procedure is highly desirable with any statistical analysis, for the introduction of data which is independent of the data utilized to develop the model equations will provide a definitive evaluation of the previous analysis.

A sample input data problem which demonstrates most of the computer program options is included in Appendix A together with the resultant output formulation. A complete listing of the main computer program and the associated subroutine subprograms is presented in Appendix B. A program user's guide (see Appendix C) provides a detailed description of the available program options and defines the sequence and function of each of the program control directives.

PROGRAM STRUCTURE

The Analysis-of-Covariance Computer Code consists of a main program and eight subroutines written in Fortran language and compatible with the NAVAIRDEVCON CDC 6600 series computer systems. The computer code listing comprising the Covariance Analysis is included with this report in Appendix B.

Program BMD04V

The main program reads the program control cards, reads the input data cards, checks the problem limitations, calculates and prints some of the output values, and controls the calls to the subroutine subprograms.

Subroutine MINV

The subroutine MINV is utilized by the main program to invert the cross-product data matrices associated with the least-square solution of

the Total, Treatment, and Error formulations of the statistical models using the standard Gauss-Jordan method.

Subroutine GRPSEL

The subroutine GRPSEL assigns group designations to each input data case consistent with user defined boolean selection criteria. If the optional boolean selection feature is being used to place cases in their treatment groups, group definition cards are prepared as shown in the user's guide of Appendix C. A diagnostic message is printed for illegal user defined operations.

Subroutine PATTY2

Subroutine PATTY2 prints the data matrices associated with the correlations, cross-products, and inverse of the cross-products for the Total, Treatment, and Error analyses. The routine also prints a diagnostic message for singular inverse cross-product matrices.

Subroutine TG41

Subroutine TG41 performs the various user defined transgenerations of input data. By use of the Transgeneration Cards (see User's Guide, Appendix C), new variables may be created by performing algebraic, trigonometric, exponential, and logarithmic transformations on the original variables. The transgeneration codes permit the formulation of any user defined multiple-variable functional relationship. The routine also prints diagnostic messages for violations of transgeneration code restrictions.

Subroutine TPWD

This subroutine assigns user specified BCD tape number designations to the main program for change and storage of case input data. A diagnostic message is printed for illegal user tape number designations.

Subroutine WRT

The subroutine WRT prints most of the output tables and computational results developed by the main program and the other subroutines.

Subroutine CONF

The subroutine CONF computes the confidence level associated with each input T-value for the corresponding degrees-of-freedom. The routine eliminates the need for detailed statistical tables by providing a rapid calculation of the Student's T-value at the appropriate confidence level for each covariate parameter.

Subroutine LDAY

The subroutine LDAY calculates and prints the current run-time day, month, and year at the top of each page of output.

PROGRAM MODIFICATIONS

A standard Analysis-of-Covariance computer program with multiple covariates has been modified to include data forecast capability, covariate correlation and residual analyses for Total, Treatment, and Error groups. The resulting statistical method represents a more sophisticated analytical tool with increased computational accuracy.

Major modifications to the original computer program were effected in the following categories:

Input/Output Enhancements

1. Input control cards printed in output.
2. Input Data cards printed in output with case and group numbers.
3. Output values printed in scientific notation.
4. Added assigned group number table for null contingency.
5. Added output paging to report style.
6. Added transgenerated data output.

Computational Enhancements

1. Added more efficient matrix inversion method.
2. Added singular matrix definition and diagnostic message.
3. Added covariate correlation matrices.
4. Added forecast data capability.
5. Added estimates of standard deviation.
6. Added confidence levels for computed T-values.
7. Added residual analyses.

8. Added maximum residual analyses.
9. Added table of intercepts.
10. Added table of overall covariate means.
11. Added table of sum-squares within.
12. Removed restrictions on covariate storage.

CONCLUSIONS

The Analysis-of-Covariance statistical method can be applied to any engineering problem for which a data base of dependent and independent variables exists and for which a requirement exists to relate the variables through a set of empirical correlation equations.

The Covariance statistical method has been used with success, for the past 7 years, at the NAVAIRDEVCON to formulate empirical correlation equations for a wide variety of engineering problems. The statistical method has more capability than the traditional multiple regression procedure and is recommended whenever a correlation is required of qualitative and quantitative parameters.

R E F E R E N C E S

- (a) Dixon, W. J., "(BMD) Biomedical Computer Programs," University of California Press, Los Angeles, 1973.
- (b) Bennett, Carl A., and Franklin, Norman L., "Statistical Analysis In Chemistry and the Chemical Industry," Wiley, 1954.
- (c) Scheffe', Henry, "The Analysis of Variance," Wiley, 1959.

NADC-77036-30

A P P E N D I X A

ANALYSIS OF COVARIANCE COMPUTER PROGRAM
SAMPLE INPUT/OUTPUT LISTING

¹
NADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

TABLE OF CONTENTS

	<u>Page No.</u>
DESCRIPTION	A-4
SAMPLE INPUT CASE	A-6
SAMPLE OUTPUT CASE	A-14

DESCRIPTION

The sample case presented in this section is representative of the engineering problems that can be analyzed using the Analysis-of-Covariance statistical method. The example represents a typical aircraft optimum Mach number climb characteristic (dependent variate parameter) in terms of altitude, weight, drag, and ambient temperature (independent covariate parameters). The covariate parameters are related to the variate through partitioning using the treatment groups designators and transgenerated in terms of the multifunctional covariates. This example illustrates the utility of the Covariance Analysis to detect and synthesize the functional relationships between independent and dependent variables.

The input cards for the sample case are presented on pages A-6 through A-13. The first page shows the sample Problem card, the Trans-generation cards, the Group Definition cards, the Label card, the Format card, and the beginning of the variate and covariate parameters. The full list of input variables is continued through page A-13 where the input is terminated with the Covariate Selection card and the finish card.

The output solution for the sample case is presented on pages A-14 through A-128. The output includes the following information: the group means, the correlation matrices, the error analyses, the covariate coefficients, the residual analyses, and the standard deviations. The Analysis-of-Covariance table (page A-59) presents the overall accuracy of the correlations for both the Total and Within analyses. The square root of the mean-square values, which are presented in the table, provides the standard error of the statistical models.

NADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

NADC-77036-30

PROBLEM4MACD70200770010503101YES005 #002YESYESYES YES #0YES740001

TANGE#002090020.0001					
TANGE#003090030.0001					
TANGE#006100020.5000					
TANGE#007100021.5000					
TANGE#00810003-.5000					
TANGE#00913003000003					
TANGE#01013008000003					
TANGE#011130040000004					
TANGE#012130050000005					
TANGE#013130120000005					
TANGE#014130060000008					
TANGE#01513007000010					
TANGE#016130070000008					
TANGE#01713007000010					
TANGE#018130040000006					
TANGE#019130040000007					
TANGE#020130040000008					
TANGE#021130040000010					
TANGE#022130110000008					
TANGE#023130110000007					
TANGE#024130110000008					
TANGE#02513011000010					
TANGE#026130050000008					
TANGE#027130050000007					
TANGE#028130050000008					
TANGE#02913005000010					
TANGE#03013005000006					
TANGE#031130130000007					
TANGE#032130130000008					
TANGE#03313013000010					
TANGE#034130050000004					
TANGE#03513005000011					
TANGE#036130130000004					
TANGE#03713013000011					
TANGE#03813005000014					
TANGE#03913005000015					
TANGE#04013005000016					
TANGE#04113005000017					
TANGE#04213005000018					
TANGE#04313005000019					
TANGE#04413005000020					
TANGE#04513005000021					
TANGE#04613005000022					
TANGE#04713005000023					
TANGE#04813005000024					
TANGE#04913005000025					
TANGE#05013013000014					
TANGE#05113013000015					
TANGE#05213013000016					
TANGE#05313013000017					
TANGE#05413013000018					
TANGE#05513013000019					
TANGE#05613013000020					
TANGE#05713013000021					
TANGE#05813013000022					
TANGE#05913013000023					
TANGE#06013013000024					
TANGE#06113013000025					
TANGE#06213038000004					
TANGE#06313042000010					
TANGE#06413043000008					
TANGE#06513045000007					
TANGE#06613046000008					
TANGE#06713046000010					
TANGE#06813047000008					
TANGE#06913047000010					
TANGE#07013050000004					
TANGE#07113051000004					
TANGE#07213052000004					
TANGE#07313053000004					
TANGE#07413058000008					
TANGE#07513058000010					
TANGE#07613059000008					
TANGE#07713059000010					
GRPDF0105L10.000					
GRPDF0205L10.000					
LABEL50001 MACH0002	ALT0003	WT0004	DC0005	DT	
110X.710.4.4F10.3					
1285	118.048	70000.000	-50.000	0.000	
1436	5000.000	70000.000	-50.000	0.000	
1605	10228.095	70000.000	-50.000	0.000	
1802	15000.000	70000.000	-50.000	0.000	
4021	20000.000	70000.000	-50.000	0.000	
4315	25000.000	70000.000	-50.000	0.000	
4861	30000.000	70000.000	-50.000	0.000	
5010	35000.000	70000.000	-50.000	0.000	
5415	40000.000	70000.000	-50.000	0.000	
5481	41000.000	70000.000	-50.000	0.000	
5504	42000.000	70000.000	-50.000	0.000	
5501	43000.000	70000.000	-50.000	0.000	
5536	44000.000	70000.000	-50.000	0.000	
1298	0.000	90000.000	-50.000	0.000	
1458	5000.000	90000.000	-50.000	0.000	
1704	10000.000	90000.000	-50.000	0.000	
1989	15000.000	90000.000	-50.000	0.000	
4298	20000.000	90000.000	-50.000	0.000	
4408	25000.000	90000.000	-50.000	0.000	
4952	30000.000	90000.000	-50.000	0.000	
5440	35000.000	90000.000	-50.000	0.000	
5491	36000.000	90000.000	-50.000	0.000	
5499	37000.000	90000.000	-50.000	0.000	
5499	38000.000	90000.000	-50.000	0.000	
5549	39000.000	90000.000	-50.000	0.000	
1320	0.000	100000.000	-50.000	0.000	
1515	4404.762	100000.000	-50.000	0.000	
1814	10000.000	100000.000	-50.000	0.000	
4114	5000.000	100000.000	-50.000	0.000	
4404	20000.000	100000.000	-50.000	0.000	
4730	24840.478	100000.000	-50.000	0.000	
5128	30000.000	100000.000	-50.000	0.000	
5499	35000.000	100000.000	-50.000	0.000	
5510	36000.000	100000.000	-50.000	0.000	
5561	37000.000	100000.000	-50.000	0.000	
1453	0.000	120000.000	-50.000	0.000	
1728	5000.000	120000.000	-50.000	0.000	
4011	10000.000	120000.000	-50.000	0.000	
4282	15000.000	120000.000	-50.000	0.000	
4568	20000.000	120000.000	-50.000	0.000	
4941	25000.000	120000.000	-50.000	0.000	

NADC-77036-30

5441	30000.000120000.000	-50.000	0.000
5480	31000.000120000.000	-50.000	0.000
5503	32000.000120000.000	-50.000	0.000
3618	0.000145000.000	-50.000	0.000
3895	5059.524145000.000	-50.000	0.000
4200	10416.667145000.000	-50.000	0.000
4440	14226.180145000.000	-50.000	0.000
4850	20000.000145000.000	-50.000	0.000
5252	25000.000145000.000	-50.000	0.000
5353	26000.000145000.000	-50.000	0.000
2986	0.00070000.000	0.000	0.000
3170	5000.00070000.000	0.000	0.000
3345	10000.00070000.000	0.000	0.000
3545	14583.33370000.000	0.000	0.000
3818	20000.00070000.000	0.000	0.000
4091	25000.00070000.000	0.000	0.000
4375	30178.57170000.000	0.000	0.000
4667	35000.00070000.000	0.000	0.000
4980	40000.00070000.000	0.000	0.000
5029	41000.00070000.000	0.000	0.000
5109	42000.00070000.000	0.000	0.000
5183	43000.00070000.000	0.000	0.000
2036	0.00090000.000	0.000	0.000
3272	5000.00090000.000	0.000	0.000
3527	10000.00090000.000	0.000	0.000
3778	15000.00090000.000	0.000	0.000
4018	20000.00090000.000	0.000	0.000
4279	25000.00090000.000	0.000	0.000
4579	30000.00090000.000	0.000	0.000
4878	35000.00090000.000	0.000	0.000
5044	38000.00090000.000	0.000	0.000
5117	37000.00090000.000	0.000	0.000
3128	0.000100000.000	0.000	0.000
3380	5000.000100000.000	0.000	0.000
3615	10000.000100000.000	0.000	0.000
3844	15000.000100000.000	0.000	0.000
4101	20000.000100000.000	0.000	0.000
4384	25000.000100000.000	0.000	0.000
4719	30000.000100000.000	0.000	0.000
4802	31000.000100000.000	0.000	0.000
4881	32000.000100000.000	0.000	0.000
4979	33000.000100000.000	0.000	0.000
5061	34000.000100000.000	0.000	0.000
5132	35000.000100000.000	0.000	0.000
3260	119.048120000.000	0.000	0.000
3472	5000.000120000.000	0.000	0.000
3727	10000.000120000.000	0.000	0.000
3997	15000.000120000.000	0.000	0.000
4287	20000.000120000.000	0.000	0.000
4596	25000.000120000.000	0.000	0.000
4870	28000.000120000.000	0.000	0.000
4741	27000.000120000.000	0.000	0.000
4822	28000.000120000.000	0.000	0.000
4912	29000.000120000.000	0.000	0.000
5012	30000.000120000.000	0.000	0.000
3384	0.000145000.000	0.000	0.000
3623	5000.000145000.000	0.000	0.000
3900	10000.000145000.000	0.000	0.000
4171	15000.000145000.000	0.000	0.000
4491	20000.000145000.000	0.000	0.000

4558	21000.000145000.000	0.000	0.000
4634	22000.000145000.000	0.000	0.000
4712	23000.000145000.000	0.000	0.000
4791	24000.000145000.000	0.000	0.000
2871	0.00070000.000	100.000	0.000
2861	5000.00070000.000	100.000	0.000
3049	10000.00070000.000	100.000	0.000
3231	15000.00070000.000	100.000	0.000
3416	20000.00070000.000	100.000	0.000
3635	25000.00070000.000	100.000	0.000
3889	30000.00070000.000	100.000	0.000
4189	35000.00070000.000	100.000	0.000
4238	36000.00070000.000	100.000	0.000
4294	37000.00070000.000	100.000	0.000
4352	38000.00070000.000	100.000	0.000
4411	39000.00070000.000	100.000	0.000
4472	40000.00070000.000	100.000	0.000
2784	0.00090000.000	100.000	0.000
3000	5000.00090000.000	100.000	0.000
3168	10000.00090000.000	100.000	0.000
3363	15000.00090000.000	100.000	0.000
3584	20000.00090000.000	100.000	0.000
3838	25000.00090000.000	100.000	0.000
4138	30000.00090000.000	100.000	0.000
4205	31000.00090000.000	100.000	0.000
4271	32000.00090000.000	100.000	0.000
4338	33000.00090000.000	100.000	0.000
4410	34000.00090000.000	100.000	0.000
4488	35000.00090000.000	100.000	0.000
2847	190.476100000.000	100.000	0.000
3052	5000.000100000.000	100.000	0.000
3229	10000.000100000.000	100.000	0.000
3422	15000.000100000.000	100.000	0.000
3670	20000.000100000.000	100.000	0.000
3943	25000.000100000.000	100.000	0.000
4259	30000.000100000.000	100.000	0.000
4327	31000.000100000.000	100.000	0.000
4396	32000.000100000.000	100.000	0.000
2903	0.000120000.000	100.000	0.000
3124	5000.000120000.000	100.000	0.000
3345	10000.000120000.000	100.000	0.000
3575	15000.000120000.000	100.000	0.000
3845	20000.000120000.000	100.000	0.000
4153	25000.000120000.000	100.000	0.000
4216	26000.000120000.000	100.000	0.000
4283	27000.000120000.000	100.000	0.000
3020	0.000145000.000	100.000	0.000
3230	5000.000145000.000	100.000	0.000
3496	10000.000145000.000	100.000	0.000
3780	15000.000145000.000	100.000	0.000
4065	20000.000145000.000	100.000	0.000
4126	21000.000145000.000	100.000	0.000
2520	0.00070000.000	200.000	0.000
2647	5000.00070000.000	200.000	0.000
2782	10000.00070000.000	200.000	0.000
2938	15000.00070000.000	200.000	0.000
3116	20000.00070000.000	200.000	0.000
3340	25000.00070000.000	200.000	0.000
3577	30000.00070000.000	200.000	0.000
3858	35000.00070000.000	200.000	0.000

NADC-77036-30

2908	38000.000	70000.000	200.000	0.000
2962	37000.000	70000.000	200.000	0.000
4019	38000.000	70000.000	200.000	0.000
2585	0.000	90000.000	200.000	0.000
2734	5000.000	90000.000	200.000	0.000
2897	10000.000	90000.000	200.000	0.000
3083	5000.000	90000.000	200.000	0.000
2298	20000.000	90000.000	200.000	0.000
2539	25000.000	90000.000	200.000	0.000
2822	30000.000	90000.000	200.000	0.000
2884	31000.000	90000.000	200.000	0.000
2948	32000.000	90000.000	200.000	0.000
2619	0.000	100000.000	200.000	0.000
2783	5000.000	100000.000	200.000	0.000
2958	10000.000	100000.000	200.000	0.000
3160	15000.000	100000.000	200.000	0.000
3382	20000.000	100000.000	200.000	0.000
3638	25000.000	100000.000	200.000	0.000
3888	30000.000	100000.000	200.000	0.000
3754	27000.000	100000.000	200.000	0.000
3815	28000.000	100000.000	200.000	0.000
3878	29000.000	100000.000	200.000	0.000
2891	0.000	120000.000	200.000	0.000
2887	5000.000	120000.000	200.000	0.000
3083	10000.000	120000.000	200.000	0.000
3304	15000.000	120000.000	200.000	0.000
3550	20000.000	120000.000	200.000	0.000
3805	21000.000	120000.000	200.000	0.000
3881	22000.000	120000.000	200.000	0.000
3718	23000.000	120000.000	200.000	0.000
3779	24000.000	120000.000	200.000	0.000
2821	142.857	145000.000	200.000	0.000
2032	5000.000	145000.000	200.000	0.000
3236	10000.000	145000.000	200.000	0.000
3477	15000.000	145000.000	200.000	0.000
3529	16000.000	145000.000	200.000	0.000
3584	17000.000	145000.000	200.000	0.000
3641	18000.000	145000.000	200.000	0.000
3057	0.000	70000.000	-50.000	18.000
3284	5000.000	70000.000	-50.000	18.000
3476	10000.000	70000.000	-50.000	18.000
3715	15335.714	70000.000	-50.000	18.000
3930	20000.000	70000.000	-50.000	18.000
4240	25118.048	70000.000	-50.000	18.000
4592	30000.000	70000.000	-50.000	18.000
4918	35000.000	70000.000	-50.000	18.000
5292	40000.000	70000.000	-50.000	18.000
5419	41000.000	70000.000	-50.000	18.000
5488	42000.000	70000.000	-50.000	18.000
5498	43000.000	70000.000	-50.000	18.000
3094	0.000	90000.000	-50.000	18.000
3344	5000.000	90000.000	-50.000	18.000
3620	10000.000	90000.000	-50.000	18.000
3920	15000.000	90000.000	-50.000	18.000
4220	20000.000	90000.000	-50.000	18.000
4503	25000.000	90000.000	-50.000	18.000
4854	30000.000	90000.000	-50.000	18.000
5325	35000.000	90000.000	-50.000	18.000
5439	36000.000	90000.000	-50.000	18.000
5494	37000.000	90000.000	-50.000	18.000

5502	38000.000	90000.000	-50.000	18.000
3174	0.000	100000.000	-50.000	18.000
2455	5000.000	100000.000	-50.000	18.000
2743	10000.000	100000.000	-50.000	18.000
4040	15000.000	100000.000	-50.000	18.000
4350	20476.180	100000.000	-50.000	18.000
4650	25476.180	100000.000	-50.000	18.000
5026	30000.000	100000.000	-50.000	18.000
5495	35000.000	100000.000	-50.000	18.000
5498	36000.000	100000.000	-50.000	18.000
3284	0.000	120000.000	-50.000	18.000
2847	5000.000	120000.000	-50.000	18.000
2935	10000.000	120000.000	-50.000	18.000
4180	14583.333	120000.000	-50.000	18.000
4480	19484.286	120000.000	-50.000	18.000
4892	25000.000	120000.000	-50.000	18.000
4887	26000.000	120000.000	-50.000	18.000
5048	27000.000	120000.000	-50.000	18.000
5156	28000.000	120000.000	-50.000	18.000
5257	29000.000	120000.000	-50.000	18.000
5361	30000.000	120000.000	-50.000	18.000
2532	0.000	145000.000	-50.000	18.000
3807	5000.000	145000.000	-50.000	18.000
4070	10000.000	145000.000	-50.000	18.000
4382	15000.000	145000.000	-50.000	18.000
4759	20000.000	145000.000	-50.000	18.000
4854	21000.000	145000.000	-50.000	18.000
4939	22000.000	145000.000	-50.000	18.000
5022	23000.000	145000.000	-50.000	18.000
5103	24000.000	145000.000	-50.000	18.000
5189	25000.000	145000.000	-50.000	18.000
2848	0.000	70000.000	0.000	18.000
3048	5000.000	70000.000	0.000	18.000
3235	10178.571	70000.000	0.000	18.000
3474	15000.000	70000.000	0.000	18.000
3734	20000.000	70000.000	0.000	18.000
3985	25000.000	70000.000	0.000	18.000
4261	30000.000	70000.000	0.000	18.000
4579	35238.055	70000.000	0.000	18.000
4896	40000.000	70000.000	0.000	18.000
4965	41000.000	70000.000	0.000	18.000
2948	0.000	90000.000	0.000	18.000
3197	5000.000	90000.000	0.000	18.000
3445	10000.000	90000.000	0.000	18.000
3664	15000.000	90000.000	0.000	18.000
3913	20000.000	90000.000	0.000	18.000
4213	25000.000	90000.000	0.000	18.000
4521	30000.000	90000.000	0.000	18.000
4912	35000.000	90000.000	0.000	18.000
4981	36000.000	90000.000	0.000	18.000
3015	0.000	100000.000	0.000	18.000
3269	5000.000	100000.000	0.000	18.000
3505	10000.000	100000.000	0.000	18.000
3736	15000.000	100000.000	0.000	18.000
4019	20000.000	100000.000	0.000	18.000
4310	25000.000	100000.000	0.000	18.000
4652	30000.000	100000.000	0.000	18.000
4732	31000.000	100000.000	0.000	18.000
4816	32000.000	100000.000	0.000	18.000
4901	33000.000	100000.000	0.000	18.000

NADC-77036-30

3116	0.000120000.000	0.000	18.000
3365	5000.000120000.000	0.000	18.000
3637	10000.000120000.000	0.000	18.000
3909	15000.000120000.000	0.000	18.000
4195	20000.000120000.000	0.000	18.000
4522	25000.000120000.000	0.000	18.000
4587	26000.000120000.000	0.000	18.000
4676	27000.000120000.000	0.000	18.000
4760	28000.000120000.000	0.000	18.000
3263	0.000145000.000	0.000	18.000
3537	5000.000145000.000	0.000	18.000
3810	10000.000145000.000	0.000	18.000
4100	15000.000145000.000	0.000	18.000
4418	20000.000145000.000	0.000	18.000
4480	21000.000145000.000	0.000	18.000
4565	22000.000145000.000	0.000	18.000
2613	0.00070000.000	100.000	18.000
2780	5000.00070000.000	100.000	18.000
2955	10000.00070000.000	100.000	18.000
3128	15000.00070000.000	100.000	18.000
3331	20000.00070000.000	100.000	18.000
3547	25000.00070000.000	100.000	18.000
3606	30000.00070000.000	100.000	18.000
4117	35000.00070000.000	100.000	18.000
4171	36000.00070000.000	100.000	18.000
4230	37000.00070000.000	100.000	18.000
4282	38000.00070000.000	100.000	18.000
4356	39000.00070000.000	100.000	18.000
2711	0.00090000.000	100.000	18.000
2892	5000.00090000.000	100.000	18.000
3076	10000.00090000.000	100.000	18.000
3278	15000.00090000.000	100.000	18.000
3501	20000.00090000.000	100.000	18.000
3753	25000.00090000.000	100.000	18.000
4072	30000.00090000.000	100.000	18.000
4139	31000.00090000.000	100.000	18.000
4212	32000.00090000.000	100.000	18.000
4284	33000.00090000.000	100.000	18.000
2745	0.000100000.000	100.000	18.000
2956	5000.000100000.000	100.000	18.000
3147	10000.000100000.000	100.000	18.000
3351	15000.000100000.000	100.000	18.000
3590	20000.000100000.000	100.000	18.000
3874	25000.000100000.000	100.000	18.000
3936	26000.000100000.000	100.000	18.000
4000	27000.000100000.000	100.000	18.000
4066	28000.000100000.000	100.000	18.000
4135	29000.000100000.000	100.000	18.000
4205	30000.000100000.000	100.000	18.000
2825	0.000120000.000	100.000	18.000
3044	5000.000120000.000	100.000	18.000
3265	10000.000120000.000	100.000	18.000
3499	15000.000120000.000	100.000	18.000
3773	20000.000120000.000	100.000	18.000
3833	21000.000120000.000	100.000	18.000
3895	22000.000120000.000	100.000	18.000
3959	23000.000120000.000	100.000	18.000
4026	24000.000120000.000	100.000	18.000
4095	25000.000120000.000	100.000	18.000
2929	0.000145000.000	100.000	18.000
3172	5000.000145000.000	100.000	18.000
3424	10000.000145000.000	100.000	18.000
3691	15000.000145000.000	100.000	18.000
3750	16000.000145000.000	100.000	18.000
3811	17000.000145000.000	100.000	18.000
3873	18000.000145000.000	100.000	18.000
3937	19000.000145000.000	100.000	18.000
2456	0.00070000.000	200.000	18.000
2555	5000.00070000.000	200.000	18.000
2705	10000.00070000.000	200.000	18.000
2863	15000.00070000.000	200.000	18.000
3042	20000.00070000.000	200.000	18.000
3253	25000.00070000.000	200.000	18.000
3506	30000.00070000.000	200.000	18.000
3797	35000.00070000.000	200.000	18.000
3849	36000.00070000.000	200.000	18.000
3905	37000.00070000.000	200.000	18.000
2521	0.00090000.000	200.000	18.000
2651	5000.00090000.000	200.000	18.000
2819	10000.00090000.000	200.000	18.000
3009	15000.00090000.000	200.000	18.000
3228	20000.00090000.000	200.000	18.000
3472	25000.00090000.000	200.000	18.000
3761	30000.00090000.000	200.000	18.000
3824	31000.00090000.000	200.000	18.000
2557	0.000100000.000	200.000	18.000
2701	5000.000100000.000	200.000	18.000
2881	10000.000100000.000	200.000	18.000
3087	15000.000100000.000	200.000	18.000
3223	20000.000100000.000	200.000	18.000
3378	25000.000100000.000	200.000	18.000
3634	30000.000100000.000	200.000	18.000
3694	31000.000100000.000	200.000	18.000
3756	32000.000100000.000	200.000	18.000
2634	0.000120000.000	200.000	18.000
2807	5000.000120000.000	200.000	18.000
3012	10000.000120000.000	200.000	18.000
3238	15000.000120000.000	200.000	18.000
3490	20000.000120000.000	200.000	18.000
3545	21000.000120000.000	200.000	18.000
3602	22000.000120000.000	200.000	18.000
2737	0.000145000.000	200.000	18.000
2867	5000.000145000.000	200.000	18.000
3173	10000.000145000.000	200.000	18.000
3419	15000.000145000.000	200.000	18.000
3475	16000.000145000.000	200.000	18.000
2926	0.00070000.000	-50.000	36.000
3129	5000.00070000.000	-50.000	36.000
3347	10000.00070000.000	-50.000	36.000
3605	15478.1070000.000	-50.000	36.000
3864	20000.00070000.000	-50.000	36.000
4193	25000.00070000.000	-50.000	36.000
4488	30000.00070000.000	-50.000	36.000
4844	35000.00070000.000	-50.000	36.000
5174	40000.00070000.000	-50.000	36.000
5285	41000.00070000.000	-50.000	36.000
5401	42000.00070000.000	-50.000	36.000
3018	0.00090000.000	-50.000	36.000
3281	5000.00090000.000	-50.000	36.000
3556	10000.00090000.000	-50.000	36.000

NADC-77036-30

3846	15000.000	10000.000	-50.000	16.000
4131	20000.000	10000.000	-50.000	16.000
4295	25000.000	10000.000	-50.000	16.000
4778	30000.000	10000.000	-50.000	16.000
5189	35000.000	10000.000	-50.000	16.000
5315	40000.000	10000.000	-50.000	16.000
3108	0.000	100000.000	-50.000	16.000
3282	5000.000	100000.000	-50.000	16.000
3686	10000.000	100000.000	-50.000	16.000
3954	15000.000	100000.000	-50.000	16.000
4210	19761.305	100000.000	-50.000	16.000
4528	25000.000	100000.000	-50.000	16.000
4853	30000.000	100000.000	-50.000	16.000
5054	31000.000	100000.000	-50.000	16.000
5147	32000.000	100000.000	-50.000	16.000
5232	33000.000	100000.000	-50.000	16.000
5332	34000.000	100000.000	-50.000	16.000
3263	0.000	120000.000	-50.000	16.000
3538	5000.000	120000.000	-50.000	16.000
3820	10000.000	120000.000	-50.000	16.000
4082	15000.000	120000.000	-50.000	16.000
4405	20000.000	120000.000	-50.000	16.000
4798	25000.000	120000.000	-50.000	16.000
4892	26000.000	120000.000	-50.000	16.000
4992	27000.000	120000.000	-50.000	16.000
5081	28000.000	120000.000	-50.000	16.000
5176	29000.000	120000.000	-50.000	16.000
3293	0.000	145000.000	-50.000	16.000
3693	5000.000	145000.000	-50.000	16.000
3997	10000.000	145000.000	-50.000	16.000
4302	15000.000	145000.000	-50.000	16.000
4671	20000.000	145000.000	-50.000	16.000
4761	21000.000	145000.000	-50.000	16.000
4856	22000.000	145000.000	-50.000	16.000
2747	0.000	70000.000	0.000	16.000
2919	5000.000	70000.000	0.000	16.000
3188	10000.000	70000.000	0.000	16.000
3400	15000.000	70000.000	0.000	16.000
3632	20000.000	70000.000	0.000	16.000
3879	24857.143	70000.000	0.000	16.000
4187	30000.000	70000.000	0.000	16.000
4523	35000.000	70000.000	0.000	16.000
4580	36000.000	70000.000	0.000	16.000
4641	37000.000	70000.000	0.000	16.000
4704	38000.000	70000.000	0.000	16.000
4770	39000.000	70000.000	0.000	16.000
4838	40000.000	70000.000	0.000	16.000
2884	0.000	90000.000	0.000	16.000
3109	5000.000	90000.000	0.000	16.000
3341	10000.000	90000.000	0.000	16.000
3559	15000.000	90000.000	0.000	16.000
3820	20000.000	90000.000	0.000	16.000
4123	25000.000	90000.000	0.000	16.000
4452	30000.000	90000.000	0.000	16.000
4526	31000.000	90000.000	0.000	16.000
4601	32000.000	90000.000	0.000	16.000
4685	33000.000	90000.000	0.000	16.000
4770	34000.000	90000.000	0.000	16.000
4855	35000.000	90000.000	0.000	16.000
2942	0.000	100000.000	0.000	16.000
3178	5000.000	100000.000	0.000	16.000
3399	10000.000	100000.000	0.000	16.000
3645	15000.000	100000.000	0.000	16.000
3923	20000.000	100000.000	0.000	16.000
4233	25000.000	100000.000	0.000	16.000
4587	30000.000	100000.000	0.000	16.000
4668	31000.000	100000.000	0.000	16.000
4754	32000.000	100000.000	0.000	16.000
3026	0.000	120000.000	0.000	16.000
3267	5000.000	120000.000	0.000	16.000
3546	10000.000	120000.000	0.000	16.000
3817	15000.000	120000.000	0.000	16.000
4125	20000.000	120000.000	0.000	16.000
4456	25000.000	120000.000	0.000	16.000
4532	26000.000	120000.000	0.000	16.000
3163	0.000	145000.000	0.000	16.000
3437	5000.000	145000.000	0.000	16.000
3730	10000.000	145000.000	0.000	16.000
4032	15000.000	145000.000	0.000	16.000
4091	16000.000	145000.000	0.000	16.000
4152	17000.000	145000.000	0.000	16.000
4218	18000.000	145000.000	0.000	16.000
4281	19000.000	145000.000	0.000	16.000
4351	20000.000	145000.000	0.000	16.000
2542	0.000	70000.000	100.000	16.000
2690	5000.000	70000.000	100.000	16.000
2848	10000.000	70000.000	100.000	16.000
3026	15000.000	70000.000	100.000	16.000
3241	20000.000	70000.000	100.000	16.000
3464	25000.000	70000.000	100.000	16.000
3727	30000.000	70000.000	100.000	16.000
4046	35000.000	70000.000	100.000	16.000
4104	36000.000	70000.000	100.000	16.000
4166	37000.000	70000.000	100.000	16.000
4232	38000.000	70000.000	100.000	16.000
2623	0.000	90000.000	100.000	16.000
2795	5000.000	90000.000	100.000	16.000
2983	10000.000	90000.000	100.000	16.000
3197	15000.000	90000.000	100.000	16.000
3423	20000.000	90000.000	100.000	16.000
3687	25000.000	90000.000	100.000	16.000
4006	30000.000	90000.000	100.000	16.000
4078	31000.000	90000.000	100.000	16.000
4152	32000.000	90000.000	100.000	16.000
2647	0.000	100000.000	100.000	16.000
2848	5000.000	100000.000	100.000	16.000
3053	10000.000	100000.000	100.000	16.000
3274	15000.000	100000.000	100.000	16.000
3515	20000.000	100000.000	100.000	16.000
3802	25000.000	100000.000	100.000	16.000
3965	30000.000	100000.000	100.000	16.000
3931	27000.000	100000.000	100.000	16.000
4000	28000.000	100000.000	100.000	16.000
2754	0.000	120000.000	100.000	16.000
2953	5000.000	120000.000	100.000	16.000
3191	10000.000	120000.000	100.000	16.000
3429	15000.000	120000.000	100.000	16.000
3704	20000.000	120000.000	100.000	16.000
3764	21000.000	120000.000	100.000	16.000
3826	22000.000	120000.000	100.000	16.000

NADC-77036-30

2891	23000	000120000.000	100.000	36.000
2868	0.000	145000.000	100.000	36.000
3096	5000	000145000.000	100.000	36.000
2254	00000	000145000.000	100.000	36.000
3629	15000	000145000.000	100.000	36.000
3688	16000	000145000.000	100.000	36.000
2263	0.000	70000.000	200.000	36.000
2471	5000	00070000.000	200.000	36.000
2622	10000	00070000.000	200.000	36.000
2788	15000	00070000.000	200.000	36.000
2973	20000	00070000.000	200.000	36.000
3187	25000	00070000.000	200.000	36.000
3438	30000	00070000.000	200.000	36.000
3733	35000	00070000.000	200.000	36.000
3787	40000	00070000.000	200.000	36.000
2439	0.000	90000.000	200.000	36.000
2572	5000	00090000.000	200.000	36.000
2743	10000	00090000.000	200.000	36.000
2839	15000	00090000.000	200.000	36.000
3165	20000	00090000.000	200.000	36.000
3410	25000	00090000.000	200.000	36.000
3464	30000	00090000.000	200.000	36.000
3519	35000	00090000.000	200.000	36.000
3577	40000	00090000.000	200.000	36.000
3638	45000	00090000.000	200.000	36.000
2479	0.000	100000.000	200.000	36.000
2625	5000	000100000.000	200.000	36.000
2809	10000	000100000.000	200.000	36.000
3018	15000	000100000.000	200.000	36.000
3254	20000	000100000.000	200.000	36.000
3517	25000	000100000.000	200.000	36.000
3575	30000	000100000.000	200.000	36.000
2564	0.000	120000.000	200.000	36.000
2736	5000	000120000.000	200.000	36.000
2943	10000	000120000.000	200.000	36.000
3178	15000	000120000.000	200.000	36.000
2227	18000	000120000.000	200.000	36.000
2278	20000	000120000.000	200.000	36.000
2328	22000	000120000.000	200.000	36.000
2379	24000	000120000.000	200.000	36.000
3432	26000	000120000.000	200.000	36.000
2675	0.000	145000.000	200.000	36.000
2875	5000	000145000.000	200.000	36.000
3115	10000	000145000.000	200.000	36.000
3162	11000	000145000.000	200.000	36.000
3211	12000	000145000.000	200.000	36.000
3280	13000	000145000.000	200.000	36.000
2154	0.000	70000.000	-50.000	-18.000
2485	5418.887	70000.000	-50.000	-18.000
3750	10357.43	70000.000	-50.000	-18.000
3965	15000	00070000.000	-50.000	-18.000
4114	20000	00070000.000	-50.000	-18.000
4374	25000	00070000.000	-50.000	-18.000
4734	30000	00070000.000	-50.000	-18.000
5211	35000	00070000.000	-50.000	-18.000
5474	40000	00070000.000	-50.000	-18.000
5486	41000	00070000.000	-50.000	-18.000
5502	42000	00070000.000	-50.000	-18.000
5505	43000	00070000.000	-50.000	-18.000
5543	44000	00070000.000	-50.000	-18.000
5599	45000	00070000.000	-50.000	-18.000
3165	0.000	90000.000	-50.000	-18.000
3504	5000	00090000.000	-50.000	-18.000
3818	10000	00090000.000	-50.000	-18.000
4050	15000	00090000.000	-50.000	-18.000
4356	20000	00090000.000	-50.000	-18.000
4701	25000	00090000.000	-50.000	-18.000
5100	30000	00090000.000	-50.000	-18.000
5482	35000	00090000.000	-50.000	-18.000
5495	36000	00090000.000	-50.000	-18.000
5500	37000	00090000.000	-50.000	-18.000
5507	38000	00090000.000	-50.000	-18.000
5555	39000	00090000.000	-50.000	-18.000
5611	40000	00090000.000	-50.000	-18.000
3700	0.000	100000.000	-50.000	-18.000
2545	5000	000100000.000	-50.000	-18.000
3882	10000	000100000.000	-50.000	-18.000
4170	15000	000100000.000	-50.000	-18.000
4487	20000	000100000.000	-50.000	-18.000
4808	25000	000100000.000	-50.000	-18.000
5217	30000	000100000.000	-50.000	-18.000
5500	35000	000100000.000	-50.000	-18.000
5509	36000	000100000.000	-50.000	-18.000
5548	37000	000100000.000	-50.000	-18.000
5629	38000	000100000.000	-50.000	-18.000
3346	0.000	120000.000	-50.000	-18.000
3707	5000	000120000.000	-50.000	-18.000
4078	10000	000120000.000	-50.000	-18.000
4378	15000	000120000.000	-50.000	-18.000
4672	20000	000120000.000	-50.000	-18.000
5026	25000	000120000.000	-50.000	-18.000
5488	30000	000120000.000	-50.000	-18.000
5489	31000	000120000.000	-50.000	-18.000
5507	32000	000120000.000	-50.000	-18.000
5547	33000	000120000.000	-50.000	-18.000
5608	34000	000120000.000	-50.000	-18.000
3455	0.000	145000.000	-50.000	-18.000
3857	5000	000145000.000	-50.000	-18.000
4254	10000	000145000.000	-50.000	-18.000
4555	14523.810	145000.000	-50.000	-18.000
4925	20000	000145000.000	-50.000	-18.000
5242	25000	000145000.000	-50.000	-18.000
5438	30000	000145000.000	-50.000	-18.000
5494	35000	000145000.000	-50.000	-18.000
5501	36000	000145000.000	-50.000	-18.000
2925	0.000	70000.000	0.000	-18.000
3190	5000	00070000.000	0.000	-18.000
3473	10000	00070000.000	0.000	-18.000
3865	14484.286	70000.000	0.000	-18.000
3885	20000	00070000.000	0.000	-18.000
4140	25238.085	70000.000	0.000	-18.000
4415	30000	00070000.000	0.000	-18.000
4731	35000	00070000.000	0.000	-18.000
5046	40000	00070000.000	0.000	-18.000
5159	41000	00070000.000	0.000	-18.000
5240	42000	00070000.000	0.000	-18.000
5275	43000	00070000.000	0.000	-18.000
5285	44000	00070000.000	0.000	-18.000
3005	0.000	90000.000	0.000	-18.000
3210	5000	00090000.000	0.000	-18.000

NADC-77036-30

3601	10000.000	90000.000	0.000	-18.000
3667	15000.000	90000.000	0.000	-18.000
4112	20000.000	90000.000	0.000	-18.000
4354	25000.000	90000.000	0.000	-18.000
4465	30000.000	90000.000	0.000	-18.000
5086	35000.000	90000.000	0.000	-18.000
5182	36000.000	90000.000	0.000	-18.000
5259	37000.000	90000.000	0.000	-18.000
5328	38000.000	90000.000	0.000	-18.000
5402	39000.000	90000.000	0.000	-18.000
3082	0.000	100000.000	0.000	-18.000
3383	5000.000	100000.000	0.000	-18.000
3689	10000.000	100000.000	0.000	-18.000
3859	15000.000	100000.000	0.000	-18.000
4176	20000.000	100000.000	0.000	-18.000
4460	25000.000	100000.000	0.000	-18.000
4797	30000.000	100000.000	0.000	-18.000
5273	35000.000	100000.000	0.000	-18.000
5343	36000.000	100000.000	0.000	-18.000
3172	0.000	120000.000	0.000	-18.000
3511	5000.000	120000.000	0.000	-18.000
3822	10000.000	120000.000	0.000	-18.000
4074	15000.000	120000.000	0.000	-18.000
4243	20000.000	120000.000	0.000	-18.000
4467	25000.000	120000.000	0.000	-18.000
5107	30000.000	120000.000	0.000	-18.000
5196	31000.000	120000.000	0.000	-18.000
5284	32000.000	120000.000	0.000	-18.000
3270	0.000	145000.000	0.000	-18.000
3621	5000.000	145000.000	0.000	-18.000
3875	10000.000	145000.000	0.000	-18.000
4247	15000.000	145000.000	0.000	-18.000
4562	20000.000	145000.000	0.000	-18.000
4840	25000.000	145000.000	0.000	-18.000
5029	26000.000	145000.000	0.000	-18.000
2648	0.000	70000.000	100.000	-18.000
2898	5000.000	70000.000	100.000	-18.000
3132	10000.000	70000.000	100.000	-18.000
3333	15000.000	70000.000	100.000	-18.000
3508	20000.000	70000.000	100.000	-18.000
3722	25000.000	70000.000	100.000	-18.000
3964	30000.000	70000.000	100.000	-18.000
4242	35000.000	70000.000	100.000	-18.000
4510	40000.000	70000.000	100.000	-18.000
4574	41000.000	70000.000	100.000	-18.000
2750	0.000	90000.000	100.000	-18.000
3019	5000.000	90000.000	100.000	-18.000
3259	10000.000	90000.000	100.000	-18.000
3449	15000.000	90000.000	100.000	-18.000
3667	20000.000	90000.000	100.000	-18.000
3815	25000.000	90000.000	100.000	-18.000
4201	30000.000	90000.000	100.000	-18.000
4525	35000.000	90000.000	100.000	-18.000
4589	36000.000	90000.000	100.000	-18.000
2783	0.000	100000.000	100.000	-18.000
3094	5000.000	100000.000	100.000	-18.000
3312	10000.000	100000.000	100.000	-18.000
3517	15000.000	100000.000	100.000	-18.000
3749	20000.000	100000.000	100.000	-18.000
4014	25000.000	100000.000	100.000	-18.000
4317	30000.000	100000.000	100.000	-18.000
4380	31000.000	100000.000	100.000	-18.000
4446	32000.000	100000.000	100.000	-18.000
4517	33000.000	100000.000	100.000	-18.000
2885	0.000	120000.000	100.000	-18.000
3150	5000.000	120000.000	100.000	-18.000
3425	10000.000	120000.000	100.000	-18.000
3654	15000.000	120000.000	100.000	-18.000
3914	20000.000	120000.000	100.000	-18.000
4209	25000.000	120000.000	100.000	-18.000
4274	26000.000	120000.000	100.000	-18.000
4339	27000.000	120000.000	100.000	-18.000
4405	28000.000	120000.000	100.000	-18.000
2987	0.000	145000.000	100.000	-18.000
3299	5000.000	145000.000	100.000	-18.000
3571	10000.000	145000.000	100.000	-18.000
3831	15000.000	145000.000	100.000	-18.000
4118	20000.000	145000.000	100.000	-18.000
4178	21000.000	145000.000	100.000	-18.000
4240	22000.000	145000.000	100.000	-18.000
4207	23000.000	145000.000	100.000	-18.000
2515	0.000	70000.000	200.000	-18.000
2724	5000.000	70000.000	200.000	-18.000
2867	10000.000	70000.000	200.000	-18.000
3021	15000.000	70000.000	200.000	-18.000
3212	20000.000	70000.000	200.000	-18.000
3417	25000.000	70000.000	200.000	-18.000
3645	30000.000	70000.000	200.000	-18.000
3915	35000.000	70000.000	200.000	-18.000
3965	36000.000	70000.000	200.000	-18.000
4015	37000.000	70000.000	200.000	-18.000
4069	38000.000	70000.000	200.000	-18.000
4125	39000.000	70000.000	200.000	-18.000
4184	40000.000	70000.000	200.000	-18.000
2572	0.000	90000.000	200.000	-18.000
2799	5000.000	90000.000	200.000	-18.000
2977	10000.000	90000.000	200.000	-18.000
3163	15000.000	90000.000	200.000	-18.000
3372	20000.000	90000.000	200.000	-18.000
3604	25000.000	90000.000	200.000	-18.000
3880	30000.000	90000.000	200.000	-18.000
3940	31000.000	90000.000	200.000	-18.000
4002	32000.000	90000.000	200.000	-18.000
4066	33000.000	90000.000	200.000	-18.000
4131	34000.000	90000.000	200.000	-18.000
2604	0.000	100000.000	200.000	-18.000
2838	5000.000	100000.000	200.000	-18.000
3036	10000.000	100000.000	200.000	-18.000
3233	15000.000	100000.000	200.000	-18.000
3451	20000.000	100000.000	200.000	-18.000
3704	25000.000	100000.000	200.000	-18.000
3998	30000.000	100000.000	200.000	-18.000
4062	31000.000	100000.000	200.000	-18.000
2669	0.000	120000.000	200.000	-18.000
2922	5000.000	120000.000	200.000	-18.000
3157	10000.000	120000.000	200.000	-18.000
3369	15000.000	120000.000	200.000	-18.000
3613	20000.000	120000.000	200.000	-18.000
3897	25000.000	120000.000	200.000	-18.000
3958	26000.000	120000.000	200.000	-18.000

NADC-77036-30

.2765	0.000145000.000	200.000	-18.000
.3024	5060.000145000.000	200.000	-18.000
.3299	10000.000145000.000	200.000	-18.000
.3528	15000.000145000.000	200.000	-18.000
.3595	16000.000145000.000	200.000	-18.000
.3647	17000.000145000.000	200.000	-18.000
.3701	18000.000145000.000	200.000	-18.000
.3757	19000.000145000.000	200.000	-18.000
.3814	20000.000145000.000	200.000	-18.000

CVRSEL27071864180616261008271123132825201430051543214731424636
FINISH

NADC-77036-30

FRIDAY, JUL 2, 1976

JMD04V - ANALYSIS OF COVARIANCE - MULTIPLE COVARIATES - REVISED OCTOBER 2, 1972
HEALTH SCIENCES COMPUTING FACILITY, UCLA (NADC REVISION JULY 2, 1976 J.J. FRANZ)

PROBLM4MACDT0200770010503101VES005 H002VESYESYES YES H0VES740001

PROBLEM CODE.....4MACDT
NUMBER OF TREATMENT GROUPS..... 2
TOTAL NUMBER OF CASES..... 770
NUMBER OF CARDS PER CASE..... 1
NUMBER OF ENTERING VARIABLES..... 5
NUMBER OF VARIABLES ADDED..... 31
INDEX OF THE DEPENDENT VARIABLE..... 1
PRINT DATA INPUT..... YES
NUMBER OF VARIABLES NAMED..... 5
USE DATA CARDS OF LAST PROBLEM..... NO
NUMBER OF GROUP DEFINITION CARDS..... 2
PRINT RESIDUALS (WITHIN)..... YES
PRINT RESIDUALS (TOTAL)..... YES
PRINT TRANSGENERATED VARIABLES..... YES
PRINT CORRELATION MATRICES..... YES
FORECAST DATA INPUT..... NO
REWIND INPUT TAPE..... YES
NUMBER OF TRANSGENERATION CARDS..... 74
SPECIFIED BCD TAPE NUMBER..... 0
NUMBER OF VARIABLE FORMAT CARDS..... 1

FRIDAY, JUL 2, 1976

TRANS-GENERATION CARDS

CARD NEW TRANS OLD CONST.
NO. VAR. CODE VAR(A) OR VAR(B)

1	2	9	2	.00010
2	3	9	3	.00010
3	4	10	2	.50000
4	7	10	2	1.50000
5	8	10	3	-.50000
6	9	13	3	3.00000
7	10	13	9	3.00000
8	11	13	4	4.00000
9	12	13	5	5.00000
10	13	13	12	5.00000
11	14	13	6	8.00000
12	15	13	7	10.00000
13	16	13	7	8.00000
14	17	13	7	10.00000
15	18	13	4	5.00000
16	19	13	4	7.00000
17	20	13	4	8.00000
18	21	13	4	10.00000
19	22	13	11	6.00000
20	23	13	11	7.00000
21	24	13	11	8.00000
22	25	13	11	10.00000
23	26	13	5	6.00000
24	27	13	5	7.00000
25	28	13	5	8.00000
26	29	13	5	10.00000
27	30	13	13	6.00000
28	31	13	13	7.00000
29	32	13	13	8.00000
30	33	13	13	10.00000
31	34	13	5	4.00000
32	35	13	5	11.00000
33	36	13	13	4.00000
34	37	13	13	11.00000
35	38	13	5	14.00000
36	39	13	5	15.00000
37	40	13	5	16.00000
38	41	13	5	17.00000
39	42	13	5	18.00000
40	43	13	5	19.00000
41	44	13	5	20.00000
42	45	13	5	21.00000
43	46	13	5	22.00000
44	47	13	5	23.00000
45	48	13	5	24.00000
46	49	13	5	25.00000
47	50	13	13	14.00000
48	51	13	13	15.00000
49	52	13	13	16.00000
50	53	13	13	17.00000

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANS-GENERATION CARDS

CARD NEW TRANS OLD CONST.
NO. VAR. CODE VAR(A) OR VAR(B)

51	54	13	13	18.00000
52	55	13	13	19.00000
53	56	13	13	20.00000
54	57	13	13	21.00000
55	58	13	13	22.00000
56	59	13	13	23.00000
57	60	13	13	24.00000
58	61	13	13	25.00000
59	62	13	18	4.00000
60	63	13	42	10.00000
61	64	13	43	8.00000
62	65	13	45	7.00000
63	66	13	46	8.00000
64	67	13	46	10.00000
65	68	13	47	8.00000
66	69	13	47	10.00000
67	70	13	50	4.00000
68	71	13	51	4.00000
69	72	13	52	4.00000
70	73	13	53	4.00000
71	74	13	58	8.00000
72	75	13	58	10.00000
73	76	13	59	8.00000
74	77	13	59	10.00000

GROUP DEFINITION CARDS

A CASE IS IN GROUP 1 IF.
VAR(5) IS LE 0.00000 *

A CASE IS IN GROUP 2 IF.
VAR(5) IS GT 0.00000 *

FRIDAY, JUL 2, 1976

NADC-77036-30

FRIDAY, JUL 2, 1976

LABELS CARDS

0001 MACH 0002 ALT 0003 WT 0004 DC 0005 DT

THE VARIABLE FORMAT CARDS
(10X, F10.4, F10.3)

FRIDAY, JUL 2, 1976

NADC-77036-30

FRIDAY, JUL 2, 1976

GROUP NO. SPECIFIED	NO. ASSIGNED	SAMPLE SIZE
------------------------	-----------------	----------------

1	1	401
2	2	349

COVARIATE SELECTION CARDS

FRIDAY, JUL 2, 1976

CVASEL27071904180616261008271123132835201430051543214731424636

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	GROUP NUMBER
CASE NUMBER	1	3255	119.048	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	2	3436	5000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	3	3605	10238.095	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	4	3802	15000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	5	4021	20000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	6	4315	25000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	7	4661	30000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	8	5010	35000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	9	5415	40000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	10	5491	41000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	11	5504	42000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	12	5501	43000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	13	5536	44000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	14	3298	0.000	80000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	15	3459	5000.000	80000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	16	3704	10000.000	80000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	GROUP NUMBER
CASE NUMBER	17	3989	15000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	18	4296	20000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	19	4608	25000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	20	4932	30000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	21	5440	35000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	22	5491	36000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	23	5498	37000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	24	5499	38000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	25	5549	39000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	26	3320	0.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	27	3515	4404.762	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	28	3814	10000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	29	4114	15000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	30	4408	20000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	31	4730	24940.476	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	32	5128	30000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER			GROUP NUMBER
	33			
	5499	35000.000100000.000	-50.000	0.000
CASE NUMBER	34			GROUP NUMBER
	5510	36000.000100000.000	-50.000	0.000
CASE NUMBER	35			GROUP NUMBER
	5561	37000.000100000.000	-50.000	0.000
CASE NUMBER	36			GROUP NUMBER
	3453	0.000120000.000	-50.000	0.000
CASE NUMBER	37			GROUP NUMBER
	3728	5000.000120000.000	-50.000	0.000
CASE NUMBER	38			GROUP NUMBER
	4011	10000.000120000.000	-50.000	0.000
CASE NUMBER	39			GROUP NUMBER
	4282	15000.000120000.000	-50.000	0.000
CASE NUMBER	40			GROUP NUMBER
	4568	20000.000120000.000	-50.000	0.000
CASE NUMBER	41			GROUP NUMBER
	4841	25000.000120000.000	-50.000	0.000
CASE NUMBER	42			GROUP NUMBER
	5441	30000.000120000.000	-50.000	0.000
CASE NUMBER	43			GROUP NUMBER
	5490	31000.000120000.000	-50.000	0.000
CASE NUMBER	44			GROUP NUMBER
	5503	32000.000120000.000	-50.000	0.000
CASE NUMBER	45			GROUP NUMBER
	3618	0.000145000.000	-50.000	0.000
CASE NUMBER	46			GROUP NUMBER
	3895	5059.524145000.000	-50.000	0.000
CASE NUMBER	47			GROUP NUMBER
	4200	10416.667145000.000	-50.000	0.000
CASE NUMBER	48			GROUP NUMBER
	4440	14226.190145000.000	-50.000	0.000

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER			GROUP NUMBER
	49			
	4850	20000.000145000.000	-50.000	0.000
CASE NUMBER	50			GROUP NUMBER
	5252	25000.000145000.000	-50.000	0.000
CASE NUMBER	51			GROUP NUMBER
	5153	26000.000145000.000	-50.000	0.000
CASE NUMBER	52			GROUP NUMBER
	2986	0.00070000.000	0.000	0.000
CASE NUMBER	53			GROUP NUMBER
	3170	5000.00070000.000	0.000	0.000
CASE NUMBER	54			GROUP NUMBER
	3345	10000.00070000.000	0.000	0.000
CASE NUMBER	55			GROUP NUMBER
	3545	14583.33370000.000	0.000	0.000
CASE NUMBER	56			GROUP NUMBER
	3818	20000.00070000.000	0.000	0.000
CASE NUMBER	57			GROUP NUMBER
	4091	25000.00070000.000	0.000	0.000
CASE NUMBER	58			GROUP NUMBER
	4375	30178.57170000.000	0.000	0.000
CASE NUMBER	59			GROUP NUMBER
	4667	35000.00070000.000	0.000	0.000
CASE NUMBER	60			GROUP NUMBER
	4960	40000.00070000.000	0.000	0.000
CASE NUMBER	61			GROUP NUMBER
	5029	41000.00070000.000	0.000	0.000
CASE NUMBER	62			GROUP NUMBER
	5100	42000.00070000.000	0.000	0.000
CASE NUMBER	63			GROUP NUMBER
	5183	43000.00070000.000	0.000	0.000
CASE NUMBER	64			GROUP NUMBER
	3036	0.00050000.000	0.000	0.000

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	GROUP NUMBER
		3272	5000.000	90000.000	0.000	0.000												1
		3527	10000.000	90000.000	0.000	0.000												1
		3778	15000.000	90000.000	0.000	0.000												1
		4018	20000.000	90000.000	0.000	0.000												1
		4279	25000.000	90000.000	0.000	0.000												1
		4579	30000.000	90000.000	0.000	0.000												1
		4878	35000.000	90000.000	0.000	0.000												1
		5044	36000.000	90000.000	0.000	0.000												1
		5117	37000.000	90000.000	0.000	0.000												1
		5128	0.000	100000.000	0.000	0.000												1
		5360	5000.000	100000.000	0.000	0.000												1
		5615	10000.000	100000.000	0.000	0.000												1
		5844	15000.000	100000.000	0.000	0.000												1
		6101	20000.000	100000.000	0.000	0.000												1
		6384	25000.000	100000.000	0.000	0.000												1
		6719	30000.000	100000.000	0.000	0.000												1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	GROUP NUMBER
		4802	31000.000	100000.000	0.000	0.000												1
		4891	32000.000	100000.000	0.000	0.000												1
		4979	33000.000	100000.000	0.000	0.000												1
		5061	34000.000	100000.000	0.000	0.000												1
		5132	35000.000	100000.000	0.000	0.000												1
		5260	119.048	120000.000	0.000	0.000												1
		5372	5000.000	120000.000	0.000	0.000												1
		5727	10000.000	120000.000	0.000	0.000												1
		5967	15000.000	120000.000	0.000	0.000												1
		6267	20000.000	120000.000	0.000	0.000												1
		6594	25000.000	120000.000	0.000	0.000												1
		6870	26000.000	120000.000	0.000	0.000												1
		7141	27000.000	120000.000	0.000	0.000												1
		7422	28000.000	120000.000	0.000	0.000												1
		7612	29000.000	120000.000	0.000	0.000												1
		7812	30000.000	120000.000	0.000	0.000												1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	97	0.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	98	3384				GROUP NUMBER
CASE NUMBER	99	3623	5000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	100	3900	10000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	101	4171	15000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	102	4449	20000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	103	4558	21000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	104	4634	22000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	105	4712	23000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	106	4791	24000.000145000.000	0.000	0.000	GROUP NUMBER
CASE NUMBER	107	4871	0.00070000.000	100.000	0.000	GROUP NUMBER
CASE NUMBER	108	4861	5000.00070000.000	100.000	0.000	GROUP NUMBER
CASE NUMBER	109	5049	10000.00070000.000	100.000	0.000	GROUP NUMBER
CASE NUMBER	110	5231	15000.00070000.000	100.000	0.000	GROUP NUMBER
CASE NUMBER	111	5416	20000.00070000.000	100.000	0.000	GROUP NUMBER
CASE NUMBER	112	5635	25000.00070000.000	100.000	0.000	GROUP NUMBER
CASE NUMBER	113	5889	30000.00070000.000	100.000	0.000	GROUP NUMBER

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	GROUP NUMBER
CASE NUMBER	113	4186	35000	000	70000	.000	100	000	0	000	GROUP NUMBER
CASE NUMBER	114	4238	36000	000	70000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	115	4294	37000	000	70000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	116	4352	38000	000	70000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	117	4411	39000	000	70000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	118	4473	40000	.000	70000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	119	2784	0	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	120	3000	5000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	121	3168	10000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	122	3363	15000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	123	3584	20000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	124	3838	25000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	125	4138	30000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	126	4205	31000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	127	4271	32000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER
CASE NUMBER	128	4338	33000	.000	90000	.000	100	.000	0	.000	GROUP NUMBER

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
CASE NUMBER	129	4410	34000.000	90000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	130	4488	35000.000	90000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	131	2847	190.476	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	132	3052	5000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	133	3229	10000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	134	3432	15000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	135	3670	20000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	136	3843	25000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	137	4259	30000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	138	4327	31000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	139	4396	32000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	140	2903	0.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	141	3126	5000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	142	2345	10000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	143	2575	15000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	144	3845	20000.000	120000.000	100.000	0.000	GROUP NUMBER	1									

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CASE NUMBER	145	4153	25000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	146	4216	26000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	147	4283	27000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	148	3020	0.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	149	3250	5000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	150	3496	10000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	151	3760	15000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	152	4065	20000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	153	4126	21000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	154	2520	0.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	155	2847	5000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	156	2782	10000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	157	2939	15000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	158	3116	20000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	159	3340	25000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	160	3577	30000.000	70000.000	200.000	0.000	GROUP NUMBER	1									

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
CASE NUMBER	161	3858	35000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	162	3908	36000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	163	3962	37000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	164	4019	38000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	165	2585	0.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	166	2734	5000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	167	2897	10000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	168	3083	15000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	169	3298	20000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	170	3539	25000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	171	3822	30000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	172	3884	31000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	173	3948	32000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	174	2619	0.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	175	2783	5000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	176	2956	10000.000	100000.000	200.000	0.000	GROUP NUMBER	1									

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
CASE NUMBER	177	3160	15000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	178	3382	20000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	179	3639	25000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	180	3698	26000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	181	3754	27000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	182	3815	28000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	183	3878	29000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	184	2691	0.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	185	2897	5000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	186	3083	10000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	187	3304	15000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	188	3550	20000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	189	3605	21000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	190	3661	22000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	191	3719	23000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	192	3779	24000.000	120000.000	200.000	0.000	GROUP NUMBER	1									

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	193	142.857145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	194	3033	5000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	195	3236	10000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	196	3477	15000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	197	3529	16000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	198	3584	17000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	199	3641	18000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	200	3657	0.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	201	3284	5000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	202	3476	10000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	203	3715	15535.714 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	204	3930	20000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	205	4240	25119.048 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	206	4542	30000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	207	4819	35000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	208	5292	40000.000 70000.000	-50.000	18.000	GROUP NUMBER	2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	209	5419	41000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	210	5488	42000.000 70000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	211	5498	43000.000 70000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	212	3094	0.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	213	3344	5000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	214	3620	10000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	215	3920	15000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	216	4220	20000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	217	4503	25000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	218	4854	30000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	219	5325	35000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	220	5439	36000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	221	5484	37000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	222	5502	38000.000 90000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	223	3174	0.000 100000.000	-50.000	18.000	GROUP NUMBER	2	
CASE NUMBER	224	3455	5000.000 100000.000	-50.000	18.000	GROUP NUMBER	2	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER
	225				2
	3743	10000.000100000.000	-50.000	18.000	2
	226				2
	4040	15000.000100000.000	-50.000	18.000	2
	227				2
	4350	20476.190100000.000	-50.000	18.000	2
	228				2
	4650	25476.190100000.000	-50.000	18.000	2
	229				2
	5026	30000.000100000.000	-50.000	18.000	2
	230				2
	5495	35000.000100000.000	-50.000	18.000	2
	231				2
	5498	36000.000100000.000	-50.000	18.000	2
	232				2
	3364	0.000120000.000	-50.000	18.000	2
	233				2
	3647	5000.000120000.000	-50.000	18.000	2
	234				2
	3835	10000.000120000.000	-50.000	18.000	2
	235				2
	4180	14583.333120000.000	-50.000	18.000	2
	236				2
	4480	19464.286120000.000	-50.000	18.000	2
	237				2
	4892	25000.000120000.000	-50.000	18.000	2
	238				2
	4987	28000.000120000.000	-50.000	18.000	2
	239				2
	5068	27000.000120000.000	-50.000	18.000	2
	240				2
	5156	28000.000120000.000	-50.000	18.000	2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER
	241				2
	5257	28000.000120000.000	-50.000	18.000	2
	242				2
	5361	30000.000120000.000	-50.000	18.000	2
	243				2
	3532	0.000145000.000	-50.000	18.000	2
	244				2
	3807	5000.000145000.000	-50.000	18.000	2
	245				2
	4070	10000.000145000.000	-50.000	18.000	2
	246				2
	4382	15000.000145000.000	-50.000	18.000	2
	247				2
	4759	20000.000145000.000	-50.000	18.000	2
	248				2
	4854	21000.000145000.000	-50.000	18.000	2
	249				2
	4939	22000.000145000.000	-50.000	18.000	2
	250				2
	5022	23000.000145000.000	-50.000	18.000	2
	251				2
	5103	24000.000145000.000	-50.000	18.000	2
	252				2
	5189	25000.000145000.000	-50.000	18.000	2
	253				2
	2848	0.00070000.000	0.000	18.000	2
	254				2
	3948	5000.00070000.000	0.000	18.000	2
	255				2
	3275	10178.57170000.000	0.000	18.000	2
	256				2
	3474	15000.00070000.000	0.000	18.000	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273
	257	3734	20000.000	70000.000	0.000	18.000	GROUP NUMBER	2										
	258	3985	25000.000	70000.000	0.000	18.000	GROUP NUMBER	2										
	259	4281	30000.000	70000.000	0.000	18.000	GROUP NUMBER	2										
	260	4579	35238.095	70000.000	0.000	18.000	GROUP NUMBER	2										
	261	4896	40000.000	70000.000	0.000	18.000	GROUP NUMBER	2										
	262	4965	41000.000	70000.000	0.000	18.000	GROUP NUMBER	2										
	263	2948	0.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	264	3197	5000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	265	3445	10000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	266	3664	15000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	267	3913	20000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	268	4213	25000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	269	4521	30000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	270	4812	35000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	271	4981	36000.000	90000.000	0.000	18.000	GROUP NUMBER	2										
	272	3015	0.000	100000.000	0.000	18.000	GROUP NUMBER	2										

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289
	273	3269	5000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	274	3505	10000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	275	3736	15000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	276	4019	20000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	277	4310	25000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	278	4652	30000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	279	4732	31000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	280	4816	32000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	281	4901	33000.000	100000.000	0.000	18.000	GROUP NUMBER	2										
	282	3116	0.000	120000.000	0.000	18.000	GROUP NUMBER	2										
	283	3365	5000.000	120000.000	0.000	18.000	GROUP NUMBER	2										
	284	3633	10000.000	120000.000	0.000	18.000	GROUP NUMBER	2										
	285	3909	15000.000	120000.000	0.000	18.000	GROUP NUMBER	2										
	286	4195	20000.000	120000.000	0.000	18.000	GROUP NUMBER	2										
	287	4522	25000.000	120000.000	0.000	18.000	GROUP NUMBER	2										
	288	4597	26000.000	120000.000	0.000	18.000	GROUP NUMBER	2										

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	289	4676 27000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	290	.4760 28000.000120000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	291	.3783 0.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	292	.3533 5000.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	293	.2910 10000.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	294	.4100 15000.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	295	.4418 20000.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	296	.4490 21000.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	297	.4565 22000.000145000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	298	.2613 0.000 70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	299	.2780 5000.000 70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	300	.2955 10000.000 70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	301	.3128 15000.000 70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	302	.3331 20000.000 70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	303	.3547 25000.000 70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	304	.3806 30000.000 70000.000	100.000	18.000	GROUP NUMBER	2	

FRIDAY, JUL 2, 1976

DATA INPUT									
CASE NUMBER	305	.4117	35000.000	70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	306	.4171	36000.000	70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	307	.4220	37000.000	70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	308	.4292	38000.000	70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	309	.4356	39000.000	70000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	310	.2711	0.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	311	.2892	5000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	312	.3076	10000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	313	.3278	15000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	314	.3501	20000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	315	.3762	25000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	316	.4072	30000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	317	.46138	31000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	318	.5212	32000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	319	.6284	33000.000	90000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	320	.2745	0.000	100000.000	100.000	18.000	GROUP NUMBER	2	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	321	2956	5000.000100000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	322	3141	10000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	323	3351	15000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	324	3590	20000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	325	3874	25000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	326	3936	26000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	327	4000	27000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	328	4066	28000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	329	4135	29000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	330	4205	30000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	331	2825	0.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	332	3044	5000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	333	3265	10000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	334	3498	15000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	335	3773	2000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	336	3833	21000.000120000.000	100.000	18.000	GROUP NUMBER	2	

FRIDAY JUL 2, 1976

DATA INPUT	CASE NUMBER	337	3895	22000.000120000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	338	3959	23000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	339	4026	24000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	340	4095	25000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	341	2929	0.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	342	3172	5000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	343	3424	10000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	344	3691	15000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	345	3750	16000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	346	3811	17000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	347	3873	18000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	348	3937	19000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	349	2456	0.00070000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	350	2555	5000.00070000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	351	2705	10000.00070000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	352	2863	15000.00070000.000	200.000	18.000	GROUP NUMBER	2	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168
CASE NUMBER	3042	20000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3253	25000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3504	30000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3797	35000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3849	36000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3905	37000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2521	0.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2651	5000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2819	10000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3009	15000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3228	20000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3472	25000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3741	30000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3824	31000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2557	0.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2701	5000.000	100000.000	200.000	18.000	GROUP NUMBER	2										

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184
CASE NUMBER	2981	10000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3087	15000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3323	20000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3576	25000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3634	26000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3694	27000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3756	28000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2634	0.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2807	5000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3012	10000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3238	15000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3490	20000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3545	21000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3602	22000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2737	0.000	145000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2967	5000.000	145000.000	200.000	18.000	GROUP NUMBER	2										

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	385	3173 10000.000145000.000	200.000	18.000	GROUP NUMBER	2
CASE NUMBER	386	3419 15000.000145000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	387	3475 16000.000145000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	388	2936 0.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	389	3129 5000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	390	3347 10000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	391	3605 15476 190 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	392	3884 20000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	393	4193 25000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	394	4488 30000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	395	4844 35000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	396	5174 40000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	397	5285 41000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	398	5401 42000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	399	5918 0 800 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	400	3281 5000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	401	2554 10000.000 80000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	402	2846 15000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	403	4131 20000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	404	4395 25000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	405	4778 30000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	406	5189 35000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	407	5315 38000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	408	3108 0.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	409	3382 5000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	410	3668 10000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	411	3954 15000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	412	4210 19761.805100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	413	4528 25000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	414	4853 30000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	415	5054 31000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	416	5147 32000.000100000.000	-50.000	36.000	GROUP NUMBER	2	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER
	417	5232 32000.000100000.000	-50.000	36.000	2
CASE NUMBER	418	5332 34000.000100000.000	-50.000	36.000	2
CASE NUMBER	419	3263 0.000120000.000	-50.000	36.000	2
CASE NUMBER	420	3538 5000.000120000.000	-50.000	36.000	2
CASE NUMBER	421	3820 10000.000120000.000	-50.000	36.000	2
CASE NUMBER	422	4092 15000.000120000.000	-50.000	36.000	2
CASE NUMBER	423	4405 20000.000120000.000	-50.000	36.000	2
CASE NUMBER	424	4796 25000.000120000.000	-50.000	36.000	2
CASE NUMBER	425	4892 26000.000120000.000	-50.000	36.000	2
CASE NUMBER	426	4992 27000.000120000.000	-50.000	36.000	2
CASE NUMBER	427	5081 28000.000120000.000	-50.000	36.000	2
CASE NUMBER	428	5176 29000.000120000.000	-50.000	36.000	2
CASE NUMBER	429	5293 0.000145000.000	-50.000	36.000	2
CASE NUMBER	430	3693 5000.000145000.000	-50.000	36.000	2
CASE NUMBER	431	3997 10000.000145000.000	-50.000	36.000	2
CASE NUMBER	432	4302 15000.000145000.000	-50.000	36.000	2

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER
	433	4671 20000.000145000.000	-50.000	36.000	2
CASE NUMBER	434	4781 21000.000145000.000	-50.000	36.000	2
CASE NUMBER	435	4856 22000.000145000.000	-50.000	36.000	2
CASE NUMBER	436	2747 0.000 70000.000	0.000	36.000	2
CASE NUMBER	437	2919 5000.000 70000.000	0.000	36.000	2
CASE NUMBER	438	3168 10000.000 70000.000	0.000	36.000	2
CASE NUMBER	439	3400 15000.000 70000.000	0.000	36.000	2
CASE NUMBER	440	3632 20000.000 70000.000	0.000	36.000	2
CASE NUMBER	441	3879 24857.143 70000.000	0.000	36.000	2
CASE NUMBER	442	4187 30000.000 70000.000	0.000	36.000	2
CASE NUMBER	443	4523 35000.000 70000.000	0.000	36.000	2
CASE NUMBER	444	4580 36000.000 70000.000	0.000	36.000	2
CASE NUMBER	445	4641 37000.000 70000.000	0.000	36.000	2
CASE NUMBER	446	4704 38000.000 70000.000	0.000	36.000	2
CASE NUMBER	447	4770 39000.000 70000.000	0.000	36.000	2
CASE NUMBER	448	4838 40000.000 70000.000	0.000	36.000	2

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	449	2884	0.000	90000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	450	3109	5000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	451	3241	10000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	452	3559	15000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	453	3820	20000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	454	4123	25000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	455	4452	30000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	456	4526	31000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	457	4601	32000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	458	4685	33000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	459	4770	34000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	460	4855	35000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	461	2842	0.000	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	462	3178	5000.000	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	463	3399	10000.000	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	464	3645	15000.000	100000.000	0.000	36.000	GROUP NUMBER	2	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	465	3923	20000.000	100000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	466	4233 <td>25000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	25000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	467	4587 <td>30000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	30000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	468	4868 <td>31000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	31000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	469	4754 <td>32000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	32000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	470	3026	0.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	471	3287	5000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	472	3548	10000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	473	3817	15000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	474	4125	20000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	475	4456	25000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	476	4522	26000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	477	3163	0.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	478	3427	5000.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	479	3730	10000.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	480	4022	15000.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
CASE NUMBER	481	16000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	482	17000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	483	18000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	484	19000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	485	20000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	486	2542	0.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	487	2680	5000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	488	2848	10000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	489	3036	15000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	490	3241	20000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	491	3464	25000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	492	3727	30000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	493	4046	35000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	494	4104	36000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	495	4166	37000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	496	4222	38000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	1
------------	-------------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	513	27000.000100000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	514	40000.000200000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	515	2754 0.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	516	2953 5000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	517	3181 10000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	518	3429 15000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	519	3704 20000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	520	3764 21000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	521	3826 22000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	522	3891 23000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	523	3868 0.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	524	3096 5000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	525	3356 10000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	526	3629 15000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	527	3688 16000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	528	2363 0.000 70000.000	200.000	36.000	GROUP NUMBER	2	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	529	2471 5000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	530	2622 10000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	531	2788 15000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	532	2973 20000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	533	3187 25000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	534	3438 30000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	535	3733 35000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	536	3787 36000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	537	2439 0.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	538	2572 5000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	539	2743 10000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	540	2939 15000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	541	3165 20000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	542	3410 25000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	543	3464 26000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	544	3519 27000.000 90000.000	200.000	36.000	GROUP NUMBER	2	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	545	2577 28000.000 80000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	546	3638 28000.000 80000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	547	2479 0.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	548	2825 5000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	549	2809 10000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	550	3018 15000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	551	3254 20000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	552	3517 25000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	553	3575 26000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	554	2584 0.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	555	2736 5000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	556	2943 10000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	557	3178 15000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	558	3227 16000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	559	3278 17000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	560	3328 18000.000 120000.000	200.000	36.000	GROUP NUMBER	2	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	561	2375 19000.000 120000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	562	2432 20000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	563	2675 0.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	564	2875 5000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	565	3115 10000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	566	3162 11000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	567	3211 12000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	568	3260 13000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	569	3156 0.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	570	3465 5418.667 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	571	3750 10357.143 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	572	3965 15000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	573	4116 20000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	574	4374 25000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	575	4734 30000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	576	5211 35000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592
		5474	40000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5486	41000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5502	42000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5505	43000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5543	44000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5588	45000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		57145	0.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		3504	5000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		3818	10000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		4030	15000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		4386	20000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		4701	25000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5100	30000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5482	35000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5485	36000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5500	37000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608
		5507	38000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5555	39000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5611	40000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		3200	0.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		3545	5000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		3882	10000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		4170	15000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		4487	20000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		4808	25000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5217	30000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5500	35000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5509	36000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5566	37000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5629	38000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		3346	0.000	120000.000	-50.000	-18.000	GROUP NUMBER	1									
		3707	5000.000	120000.000	-50.000	-18.000	GROUP NUMBER	1									

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER
	609				1
	4078	10000.000120000.000	-50.000	-18.000	1
CASE NUMBER	610				1
	4378	15000.000120000.000	-50.000	-18.000	1
CASE NUMBER	611				1
	4672	20000.000120000.000	-50.000	-18.000	1
CASE NUMBER	612				1
	5026	25000.000120000.000	-50.000	-18.000	1
CASE NUMBER	613				1
	5488	30000.000120000.000	-50.000	-18.000	1
CASE NUMBER	614				1
	5489	31000.000120000.000	-50.000	-18.000	1
CASE NUMBER	615				1
	5507	32000.000120000.000	-50.000	-18.000	1
CASE NUMBER	616				1
	5547	33000.000120000.000	-50.000	-18.000	1
CASE NUMBER	617				1
	5608	34000.000120000.000	-50.000	-18.000	1
CASE NUMBER	618				1
	3455	0.000145000.000	-50.000	-18.000	1
CASE NUMBER	619				1
	3857	5000.000145000.000	-50.000	-18.000	1
CASE NUMBER	620				1
	4254	10000.000145000.000	-50.000	-18.000	1
CASE NUMBER	621				1
	4555	14523.810145000.000	-50.000	-18.000	1
CASE NUMBER	622				1
	4925	20000.000145000.000	-50.000	-18.000	1
CASE NUMBER	623				1
	5342	25000.000145000.000	-50.000	-18.000	1
CASE NUMBER	624				1
	5438	26000.000145000.000	-50.000	-18.000	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER				GROUP NUMBER
	625				1
	5494	27000.000145000.000	-50.000	-18.000	1
CASE NUMBER	626				1
	5501	28000.000145000.000	-50.000	-18.000	1
CASE NUMBER	627				1
	2925	0.00070000.000	0.000	-18.000	1
CASE NUMBER	628				1
	3190	5000.00070000.000	0.000	-18.000	1
CASE NUMBER	629				1
	3473	10000.00070000.000	0.000	-18.000	1
CASE NUMBER	630				1
	3665	14464.28670000.000	0.000	-18.000	1
CASE NUMBER	631				1
	3885	20000.00070000.000	0.000	-18.000	1
CASE NUMBER	632				1
	4140	25238.09570000.000	0.000	-18.000	1
CASE NUMBER	633				1
	44.5	30000.00070000.000	0.000	-18.000	1
CASE NUMBER	634				1
	4721	35000.00070000.000	0.000	-18.000	1
CASE NUMBER	635				1
	5066	40000.00070000.000	0.000	-18.000	1
CASE NUMBER	636				1
	5159	41000.00070000.000	0.000	-18.000	1
CASE NUMBER	637				1
	5240	42000.00070000.000	0.000	-18.000	1
CASE NUMBER	638				1
	5315	43000.00070000.000	0.000	-18.000	1
CASE NUMBER	639				1
	5385	44000.00070000.000	0.000	-18.000	1
CASE NUMBER	640				1
	5005	0.00090000.000	0.000	-18.000	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	GROUP NUMBER
3310 5000.000 90000.000	0.000 -18.000	1
3601 10000.000 90000.000	0.000 -18.000	1
3867 15000.000 90000.000	0.000 -18.000	1
4112 20000.000 90000.000	0.000 -18.000	1
4354 25000.000 90000.000	0.000 -18.000	1
4665 30000.000 90000.000	0.000 -18.000	1
5086 35000.000 90000.000	0.000 -18.000	1
5182 38000.000 90000.000	0.000 -18.000	1
5259 37000.000 90000.000	0.000 -18.000	1
5328 38000.000 90000.000	0.000 -18.000	1
5402 39000.000 90000.000	0.000 -18.000	1
5082 0.000 100000.000	0.000 -18.000	1
5393 5000.000 100000.000	0.000 -18.000	1
5369 10000.000 100000.000	0.000 -18.000	1
5399 15000.000 100000.000	0.000 -18.000	1
5416 20000.000 100000.000	0.000 -18.000	1

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	GROUP NUMBER
4460 25000.000 100000.000	0.000 -18.000	1
4797 30000.000 100000.000	0.000 -18.000	1
5273 35000.000 100000.000	0.000 -18.000	1
5343 38000.000 100000.000	0.000 -18.000	1
5172 0.000 120000.000	0.000 -18.000	1
3511 5000.000 120000.000	0.000 -18.000	1
3832 10000.000 120000.000	0.000 -18.000	1
4074 15000.000 120000.000	0.000 -18.000	1
4343 20000.000 120000.000	0.000 -18.000	1
4667 25000.000 120000.000	0.000 -18.000	1
5107 30000.000 120000.000	0.000 -18.000	1
5196 31000.000 120000.000	0.000 -18.000	1
5286 32000.000 120000.000	0.000 -18.000	1
3270 0.000 145000.000	0.000 -18.000	1
3621 5000.000 145000.000	0.000 -18.000	1
3975 10000.000 145000.000	0.000 -18.000	1

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	673	4247 15000.000145000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	674	4562 20000.000145000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	675	4940 25000.000145000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	676	5029 26000.000145000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	677	2648 0.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	678	2898 5000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	679	3133 10000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	680	3333 15000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	681	3508 20000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	682	3722 25000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	683	3964 30000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	684	4242 35000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	685	4510 40000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	686	4574 41000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	687	2750 0.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	688	3019 5000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	689	3259 10000.000 90000.000 <th>100.000 <th>-18.000</th> <th>GROUP NUMBER</th> <th>1</th> </th>	100.000 <th>-18.000</th> <th>GROUP NUMBER</th> <th>1</th>	-18.000	GROUP NUMBER	1
CASE NUMBER	690	3449 15000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	691	3667 20000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	692	3915 25000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	693	4201 30000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	694	4525 35000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	695	4589 36000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	696	2783 0.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	697	3054 5000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	698	3312 10000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	699	3517 15000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	700	3749 20000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	701	4014 25000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	702	4317 30000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	703	4380 31000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	704	4446 32000.000100000.000	100.000	-18.000	GROUP NUMBER	1	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
		4517	33000.000100000.000	100.000	-18.000	GROUP NUMBER	1										
		2845	0.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3150	5000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3425	10000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3654	15000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3814	20000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		4209	25000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		4274	26000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		5339	27000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		4405	8000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		2987	0.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		3299	5000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		3571	10000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		3831	15000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		4118	20000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		4178	21000.000145000.000	100.000	-18.000	GROUP NUMBER	1										

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736
		4240	22000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		4307	23000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		2515	0.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		2724	5000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		2887	10000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3021	15000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3212	20000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3417	25000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3645	30000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3815	35000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3985	38000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4015	37000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4088	38000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4125	39000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4184	40000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		2572	0.00090000.000	200.000	-18.000	GROUP NUMBER	1										

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	737	2799 5000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	738	2977 10000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	739	3163 15000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	740	3372 20000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	741	3606 25000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	742	3880 30000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	743	3940 31000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	744	4002 32000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	745	4066 33000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	746	4131 34000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	747	2604 0.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	748	2838 5000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	749	3036 10000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	750	3233 15000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	751	3451 20000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	752	3704 25000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	753	3998 30000.000 100000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	754	4062 31000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	755	2689 0.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	756	2922 5000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	757	3157 10000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	758	3369 15000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	759	3613 20000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	760	3897 25000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	761	3958 26000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	762	2785 0.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	763	3034 5000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	764	3299 10000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	765	3538 15000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	766	3595 16000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	767	3647 17000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	768	3701 18000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	

NADC-77036-30

FRIDAY, JUL 2, 1976

DATA INPUT							
CASE NUMBER	769					GROUP NUMBER	1
	3757	19000.000145000.000	200.000	-18.000			
CASE NUMBER	770					GROUP NUMBER	1
	3814	20000.000145000.000	200.000	-18.000			

FRIDAY, JUL 2, 1976

VARIABLE MEANS FOR EACH GROUP

GROUP NO. 1

(X(7) .3428446E+01) (X(19) .1571350E+03) (DC .5673317E+02) (X(18) .6945226E+02) (X(6) .1317380E+01) (X(16) .1138398E+01)
 (X(28) .1202251E+02) (X(10) .1227600E+04) (X(8) .3219179E+00) (X(27) .3178597E+02) (X(11) .1240025E+05) (X(23) .3744072E+05)
 (X(13) .2937815E+04) (X(28) .2916512E+01) (X(25) .1536565E+08) (X(20) .1825670E+02) (X(14) .4291789E+00) (X(30) .3895293E+04)
 (DT .9067332E+01) (X(15) .3431580E+04) (X(43) .1408095E+04) (X(21) .7052837E+05) (X(47) .3534528E+06) (X(31) .1028865E+05)
 (X(42) .6195607E+03) (X(46) .1441665E+06) (X(36) .1643431E+06) (MACH .4055491E+00)

GROUP NO. 2

(X(7) .2947998E+01) (X(19) .1285165E+02) (DC .5687805E+02) (X(18) .6271224E+02) (X(6) .1244699E+01) (X(16) .9780265E+00)
 (X(28) .3328571E+02) (X(10) .1242583E+04) (X(8) .3209833E+00) (X(27) .7839730E+02) (X(11) .1187689E+05) (X(23) .2895849E+05)
 (X(13) .2585678E+05) (X(28) .8619331E+01) (X(25) .1442844E+08) (X(20) .1771076E+02) (X(14) .4043889E+00) (X(30) .3189213E+05)
 (DT .2682927E+02) (X(15) .2961932E+04) (X(43) .3384588E+04) (X(21) .6526506E+05) (X(47) .7921608E+06) (X(31) .7465061E+05)
 (X(42) .1676125E+04) (X(46) .3724982E+06) (X(36) .1426390E+07) (MACH .3799314E+00)

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF MEANS (TOTAL)

VARIABLE	MEAN
X(7)	.3197138E+01
X(19)	.1434204E+03
DC	.5584416E+02
X(8)	.6622230E+02
X(6)	.1282550E+01
X(16)	.1081545E+01
X(26)	.9880547E+01
X(10)	.1234771E+04
X(9)	.3214700E+00
X(27)	.2101615E+02
X(11)	.1214935E+05
X(23)	.3385508E+05
X(13)	.1086115E+05
X(28)	.2611704E+01
X(25)	.1491852E+08
X(20)	.1795504E+02
X(14)	.4172280E+00
X(30)	.1325478E+05
DT	.8135065E+01
X(15)	.3206520E+04
X(43)	.8881271E+03
X(21)	.6800608E+05
X(47)	.1955490E+06
X(31)	.3041080E+05
X(42)	.4796213E+03
X(46)	.1034280E+06
X(36)	.5879845E+06
MACH	.3932728E+00

CORRELATION MATRIX
FOR TOTAL

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(8)	X(6)	X(16)	X(26)	X(10)
X(7)	.1000000E+01	.1480884E+00	-.1481202E+00	.3913292E-01	.8955821E+00	.9881686E+00	.2742821E-01	.3284092E+00
X(19)	.1480884E+00	.1000000E+01	.7415836E+00	.9341846E+00	-.936631E+00	.1640656E+00	.018020E-01	.3117798E+00
DC	-.1481202E+00	.7415836E+00	.1000000E+01	.8853786E+00	-.9928506E-01	.1307539E+00	.2279256E-01	.1106941E-01
X(8)	.3913292E-01	.9341846E+00	.8853786E+00	.1000000E+01	.1334999E+00	.5067538E-01	.1054992E-02	.6994595E-01
X(6)	.8955821E+00	.9328506E-01	-.9928506E-01	.1334999E+00	.1000000E+01	.6586355E+00	.8328348E-01	.2208900E+00
X(16)	.9881686E+00	.1640656E+00	.018020E-01	.1307539E+00	.5067538E-01	.1000000E+01	.2105791E-01	.4111000E+00
X(26)	.2742821E-01	.1018930E-01	.2279256E-01	.1054992E-02	.9328348E-01	.2105791E-01	.1000000E+01	.3868819E-01
X(10)	.3284092E+00	.1317798E+00	.1106941E-01	.6994595E-01	.2208900E+00	.4111000E+00	.2869819E-01	.1000000E+01
X(9)	.3439838E+00	.1405634E+00	.1146394E-01	.7143674E-01	.2219569E+00	.4484078E+00	.3284896E-01	.8247761E+00
X(27)	.9582955E-01	.4548074E-02	.3728851E-01	.1021251E-01	.1284270E+00	.1019863E+00	.9400533E+00	.7624951E-01
X(11)	.1214935E+05	.6488771E+00	.9880107E+00	.7924525E+00	.8822445E-01	.1141613E+00	.2252292E-01	.6094733E-02
X(23)	.3183151E+00	.8858874E+00	.6293879E+00	.8238068E+00	.3341647E+00	.3294442E+00	.2558000E-01	.1727644E+00
X(13)	.1086115E+05	.3657701E-01	.4444767E-02	.2087948E-01	.5818818E-01	.7635770E-01	.7872402E+00	.5679992E-02
X(28)	.2611704E+01	.3103896E-01	.4369217E-02	.1774361E-01	.5389218E-01	.7133782E-01	.9052939E+00	.4479658E-01
X(25)	.1491852E+08	.3161413E+00	.6632666E+00	.5048309E+00	.1644912E+00	.2488598E+00	.4487503E-01	.4148643E+00
X(20)	.1795504E+02	.7708620E+00	.9900639E+00	.8928768E+00	.8035901E-01	.9928599E-01	.1896318E-01	.7624777E-01
X(14)	.4173184E+00	.2189178E+00	.8447237E-01	.1424490E+00	.9657840E+00	.9195787E+00	.8354918E-01	.4151404E+00
X(30)	.9823868E-01	.7751982E-03	.2866280E-01	.6082744E-02	.1584230E+00	.9842038E-01	.8825721E+00	.5776039E-01
DT	.8973136E-01	.3786118E-01	.5931092E-02	.2232605E-01	.6557288E-01	.9124090E-01	.8997869E+00	.8336950E-03
X(15)	.3206520E+04	.3159327E-01	.1893866E+00	.5618695E-01	.5813097E+00	.3577079E+00	.1920303E-01	.4625856E+00
X(43)	.8881271E+03	.1817560E+00	.1955990E+00	.2185785E+00	.3206213E-01	.9830089E-02	.3822347E+00	.552201E-01
X(21)	.6800608E+05	.4062775E+00	.7625072E+00	.6013149E+00	.1588282E+00	.2247516E+00	.4114109E-01	.3154028E+00
X(47)	.1955490E+06	.1242115E+00	.1471377E+00	.1842355E+00	.4474538E-01	.1311451E-01	.5550746E+00	.5298277E-01
X(31)	.3041080E+05	.7171479E-02	.5476717E-01	.1002716E-01	.2216040E+00	.2173335E+00	.8282974E+00	.1150480E+00
X(42)	.4796213E+03	.1920899E+00	.2638462E+00	.2655262E+00	.1257994E-01	.2524602E-01	.4271604E+00	.4048974E-01
X(46)	.1034280E+06	.1337700E+00	.2112515E+00	.2097699E+00	.2021047E-01	.2856147E-01	.5683933E+00	.3278607E-01
X(36)	.5879845E+06	.2370577E+00	.4130256E+00	.3328819E+00	.7374628E-01	.9150708E-01	.3202090E+00	.1097906E-01
MACH	.3932728E+00	.3017087E+00	.5874965E+00	.4169498E+00	.7718204E+00	.7526158E+00	.5748248E-01	.7503011E-02

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(1)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	3438638E-00	8582855E-01	1290592E-00	3183151E-00	8528584E-01	8254107E-01	2317805E-00	1219984E-00
X(19)	405634E-00	4549074E-02	8488771E-00	8838874E-00	2857701E-01	3102396E-01	3161413E-00	7708820E-00
DC	1146394E-01	372851E-01	9080107E-00	8282875E-00	4444767E-02	4389217E-02	6632666E-00	990659E-00
X(16)	714374E-01	1021251E-01	7924525E-00	3238306E-00	2087948E-01	1774361E-01	5043309E-00	8928768E-00
X(6)	2219569E-00	1284270E-00	8832445E-01	3341647E-00	5818818E-01	5398218E-01	1644812E-00	8035901E-01
X(18)	4494078E-00	1019883E-00	1141813E-00	2294642E-00	7635770E-01	7132782E-01	2488599E-00	9928599E-01
X(26)	3294898E-01	9400533E-00	3252292E-01	2559000E-01	7872602E-00	9052939E-00	4497502E-01	1896318E-01
X(10)	9247761E-00	7634951E-01	6084733E-02	1727844E-00	5677952E-02	4479659E-01	4148643E-00	7624777E-01
X(8)	1000000E-01	7486227E-01	7439575E-02	1841642E-00	2428671E-02	4355872E-01	3823942E-00	8243044E-01
X(27)	7486227E-01	1000000E-01	4790466E-01	1278360E-01	6604383E-00	7908004E-00	6480964E-01	3122194E-01
X(11)	7439575E-02	4790466E-01	1000000E-01	6801062E-00	7348666E-02	1403004E-01	7310381E-00	9000077E-00
X(23)	1841642E-00	1278360E-01	6801062E-00	1000000E-01	5750569E-01	6861437E-01	3180115E-00	6611804E-00
X(13)	3438638E-01	8582855E-00	7348666E-02	5750569E-01	1000000E-01	8775309E-00	6882857E-02	4444337E-02
X(28)	4355872E-01	7908004E-00	1403004E-01	6861437E-01	8774309E-00	1000000E-01	3158351E-01	6845312E-03
X(25)	3823942E-00	6480964E-01	7310381E-00	3180115E-00	4682857E-02	3158351E-01	1000000E-01	5742277E-00
X(20)	8243044E-01	3122194E-01	9000077E-00	6611804E-00	4444337E-02	6945312E-03	5742277E-00	1000000E-01
X(14)	4440335E-00	1387982E-00	7582608E-01	2598872E-00	5084143E-01	3872798E-01	2314894E-00	5145400E-01
X(30)	5427870E-01	8206244E-00	3144236E-01	4050198E-02	8884022E-00	7965167E-00	4659599E-01	2432516E-01
DT	4403576E-02	7672831E-00	1432664E-01	6750658E-01	8841897E-00	5914249E-00	1623633E-01	5237786E-02
X(15)	4728663E-00	3124121E-02	1446265E-00	6922802E-01	9584494E-01	1140996E-00	3845761E-01	1882455E-00
X(43)	4849410E-01	3438638E-00	1557162E-00	1278894E-00	2890517E-00	3553485E-00	6545466E-01	7028188E-00
X(21)	2924891E-00	3883250E-01	6840357E-00	3158895E-00	7882517E-02	2515182E-01	9168494E-00	6707952E-00
X(47)	4336256E-01	5382307E-00	1531267E-00	1207469E-00	4055466E-00	4951666E-00	6139087E-01	1534203E-00
X(31)	1189786E-00	8779670E-00	5742841E-01	2656911E-01	7433449E-00	4805256E-00	8413083E-01	4650222E-01
X(42)	2937773E-01	3370820E-00	2260528E-00	1424794E-00	3561237E-00	4248269E-00	1325700E-00	2654038E-00
X(46)	2055553E-01	4805520E-00	2244688E-00	1365599E-00	4728207E-00	5462688E-00	1324018E-00	2126080E-00
X(36)	4520892E-02	2180839E-00	1781232E-00	1844229E-00	4571587E-00	4014198E-00	2745154E-00	4074261E-00
MACH	1360843E-01	5589407E-02	4980879E-00	8544741E-01	1588832E-00	1763225E-00	3657640E-00	5803978E-00

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	9173184E-00	8623668E-01	8973136E-01	4848458E-00	2053649E-02	2191853E-00	7620306E-02	2117256E-00
X(19)	2189178E-00	7751982E-03	3786118E-01	3158327E-01	1817560E-00	4062774E-00	1242115E-00	7171679E-02
DC	8447237E-01	2866200E-01	5931092E-02	1693866E-00	1955890E-00	7625072E-00	1471277E-00	5476717E-01
X(18)	1424490E-00	6062744E-02	2232605E-01	5618695E-01	2185785E-00	6013149E-00	1642265E-00	1002718E-01
X(6)	9657840E-00	1584360E-00	6537288E-01	5813097E-00	3206213E-01	1568282E-00	4474538E-01	2236060E-00
X(16)	9185787E-00	8842036E-01	8124090E-01	2577079E-00	9820089E-02	2247816E-00	1213851E-01	2173235E-00
X(26)	3354918E-01	8825721E-00	8997869E-00	1820303E-01	2822347E-00	4114109E-01	5550746E-00	8282974E-00
X(10)	4151484E-00	5776059E-01	3236950E-02	4625858E-00	5522201E-01	3154028E-00	5298377E-01	1150480E-00
X(8)	4440335E-00	5427870E-01	4403576E-02	4728663E-00	4849410E-01	2824891E-00	4336256E-01	1189786E-00
X(27)	1387982E-00	8206244E-00	7672831E-00	3124121E-02	3438638E-00	5853250E-01	5282207E-00	8776702E-00
X(11)	7582608E-01	3144236E-01	1432664E-01	1446265E-00	1557162E-00	6840357E-00	1531267E-00	5742841E-01
X(23)	3586872E-00	4050198E-02	6750658E-01	6922802E-01	1278894E-00	3158895E-00	1207449E-00	2655911E-01
X(13)	5084143E-01	8884022E-00	8841897E-00	9584494E-01	2890517E-00	7882517E-02	4055466E-00	7433449E-00
X(28)	3872798E-01	7965167E-00	9814249E-00	1140996E-00	3553485E-00	2515182E-01	4951666E-00	6905256E-00
X(25)	2314894E-00	4659599E-01	1623633E-01	3845761E-01	6545466E-01	9168494E-00	6139087E-01	8413083E-01
X(20)	5145400E-01	2432516E-01	5237786E-02	1882455E-00	2020193E-00	6707952E-00	1534203E-00	4650222E-01
X(14)	1000000E-01	1588832E-00	5991329E-01	3814952E-00	4207316E-01	2019892E-00	3248852E-01	2393397E-00
X(30)	1589805E-00	1000000E-01	7895292E-00	1869528E-01	3259066E-00	4525322E-01	4720277E-00	8340406E-00
DT	5991329E-01	7895292E-00	1000000E-01	1000000E-01	3496114E-00	1447263E-01	4788455E-00	8662837E-00
X(15)	3814952E-00	1869528E-01	1000000E-01	1000000E-01	5346118E-01	4038773E-01	4172874E-01	4915358E-01
X(43)	4207316E-01	3259066E-00	3496114E-00	5346118E-01	1000000E-01	9682837E-01	8910286E-00	2900039E-00
X(21)	2019892E-00	4525322E-01	1447263E-01	4038773E-01	9682837E-01	1000000E-01	6443250E-01	7881104E-01
X(47)	5248852E-01	4720277E-00	4786435E-00	4172874E-01	8910286E-00	6443250E-01	1000000E-01	4524984E-00
X(31)	2232397E-00	8240494E-00	6862837E-00	4915358E-01	2900039E-00	7881104E-01	4524984E-00	1000000E-01
X(42)	1982689E-01	3717351E-00	4189177E-00	7262145E-01	9369673E-00	1679553E-00	8546321E-00	2861898E-00
X(46)	2355640E-01	4844712E-00	5424240E-00	6169186E-01	3258973E-00	1299555E-00	9354202E-00	4086038E-00
X(36)	6407210E-01	3589906E-00	4041628E-00	1163737E-00	6570434E-00	3130844E-00	6018719E-00	2387869E-00
MACH	7027022E-00	7210529E-02	1762167E-00	6930534E-00	1420288E-00	4528082E-00	1118815E-00	1052085E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(26)	MACH
X(7)	-3280845E-01	-3398059E-01	-1023077E-00	-8121824E-00
X(19)	-1930899E-00	-1387700E-00	-2370577E-00	-3017087E-00
DC	-2638462E-00	-2112515E-00	-4130256E-00	-5874965E-00
X(18)	-2655262E-00	-2097899E-00	-3328819E-00	-4169498E-00
X(6)	-1257994E-01	-2021047E-01	-7374628E-01	-7716204E-00
X(6)	-2524602E-01	-2856147E-01	-9150708E-01	-7526158E-00
X(26)	-4271604E-00	-5683933E-00	-3202090E-00	-5748248E-01
X(10)	-4048974E-01	-3376807E-01	-1097908E-01	-7503011E-02
X(8)	-2937773E-01	-2055533E-01	-4520082E-02	-1340843E-01
X(27)	-3370820E-00	-4808520E-00	-2180939E-00	-5589607E-02
X(11)	-2260538E-00	-2264688E-00	-3761232E-00	-4880879E-00
X(23)	-1434784E-00	-1365559E-00	-1664229E-00	-6544747E-01
X(13)	-3661237E-00	-4728207E-00	-4571587E-00	-1589832E-00
X(29)	-4248269E-00	-5462888E-00	-4014188E-00	-1763325E-00
X(25)	-1325700E-00	-1224018E-00	-2745154E-00	-3657640E-00
X(20)	-2854038E-00	-2126080E-00	-4074261E-00	-5803978E-00
X(14)	-1983689E-01	-2355440E-01	-6407210E-01	-7027022E-00
X(30)	-3717351E-00	-4944712E-00	-3588906E-00	-7210529E-02
DT	-4199177E-00	-5424240E-00	-4641628E-00	-1782147E-00
X(15)	-7282145E-01	-6186166E-01	-1183737E-00	-6930534E-00
X(43)	-8369673E-00	-8358973E-00	-6570434E-00	-1420289E-00
X(2)	-1679533E-00	-1299555E-00	-3130344E-00	-4528083E-00
X(47)	-8546321E-00	-9354202E-00	-6018719E-00	-1118815E-00
X(31)	-2861898E-00	-4086038E-00	-2387869E-00	-1052065E-00
X(42)	-1000000E+01	-9149255E-00	-7965757E-00	-1981790E-00
X(46)	-9149255E-00	-1000000E+01	-7353229E-00	-1707209E-00
X(26)	-7965757E-00	-7353229E-00	-1000000E+01	-3084184E-00
MACH	-1981790E-00	-1707209E-00	-3084184E-00	-1000000E+01

CORRELATION MATRIX
FOR ERROR.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-1000000E+01	-1451411E-00	-1497504E-00	-3686948E-01	-8954186E-00	-9880878E-00	-1762546E-00	-3301450E-00
X(19)	-1451411E-00	-1000000E+01	-7418126E-00	-9341838E-00	-1917519E-00	-1673512E-00	-2554238E-01	-1315610E+00
DC	-1497504E-00	-7418126E-00	-1000000E+01	-8954603E-00	-1001100E-00	-1321590E-00	-2512986E-01	-1098947E-01
X(18)	-3686948E-01	-9341838E-00	-8954603E-00	-1000000E+01	-1321902E-00	-4860637E-01	-3269687E-01	-6975954E-01
X(6)	-8954186E-00	-1917519E-00	-1001100E-00	-1321902E-00	-1000000E+01	-8593278E-00	-2428755E-00	-2206161E-00
X(16)	-9880878E-00	-1673512E-00	-1321590E-00	-4860637E-01	-8593278E-00	-1000000E+01	-1734521E-00	-4120200E-00
X(26)	-1762546E-00	-2554238E-01	-2512986E-01	-3269687E-01	-2428755E-00	-1734521E-00	-1000000E+01	-7621536E-01
X(10)	-3301450E-00	-1315610E-00	-1098947E-01	-6975954E-01	-2206161E-00	-4120200E-00	-7621536E-01	-1000000E+01
X(8)	-3444352E-00	-1402172E-00	-1134952E-01	-7116201E-01	-2214680E-00	-4491738E-00	-7139347E-01	-8247744E-00
X(27)	-2218910E-00	-3026693E-01	-4184226E-01	-9895258E-02	-2354984E-00	-2241108E-00	-8897274E-00	-1123154E-00
X(11)	-1312995E-00	-6468027E-00	-9090188E-00	-7823926E-00	-8958870E-01	-1161497E-00	-3185123E-01	-5955834E-02
X(23)	-13143169E-00	-8838644E-00	-6300869E-00	-8241282E-00	-3314764E-00	-3257573E-00	-4288394E-01	-1725821E+00
X(12)	-2467042E-01	-1266134E-01	-3513221E-02	-3922784E-02	-1873731E-01	-1851105E-01	-5175161E-00	-1640618E-01
X(28)	-2787399E-02	-7495948E-02	-8179793E-02	-1044730E-01	-4690019E-02	-1670578E-01	-7004569E-00	-1121886E-00
X(25)	-2346184E-00	-3157320E-00	-6632300E-00	-5046182E-00	-1659917E-00	-2515093E-00	-5132155E-01	-4150944E-00
X(20)	-1234170E-00	-7711339E-00	-9900635E-00	-8929771E-00	-8108574E-01	-1004801E-00	-1983722E-01	-7618015E-01
X(14)	-9174169E-00	-2171230E-00	-8522185E-01	-1412103E-00	-9856587E-00	-9185232E-00	-2382475E-00	-4154214E-00
X(30)	-2039855E-00	-3298718E-01	-2907249E-01	-2877903E-01	-2574390E-00	-2013209E-00	-8104973E-00	-8149856E-01
DT	-3139018E-01	-6739829E-02	-6210086E-02	-1078447E-02	-1983214E-01	-2558009E-01	-8800943E-00	-1837822E-01
X(15)	-4807423E-00	-3447184E-01	-1707910E-00	-5852303E-01	-5792072E-00	-3529249E-00	-7894350E-01	-4648888E-00
X(43)	-3398928E-01	-2034877E-00	-2085173E-00	-2377637E-00	-5408944E-01	-3886498E-01	-2419592E-00	-6064109E-01
X(21)	-2218800E-00	-4059777E-00	-7824883E-00	-6011616E-00	-1582551E-00	-2272229E-00	-4598845E-01	-3156020E-00
X(47)	-5370648E-01	-1556975E-00	-1671785E-00	-1925394E-00	-7942416E-01	-5672324E-01	-3958038E-00	-6244530E-01
X(31)	-3128727E-00	-3223256E-01	-5886864E-01	-4308970E-02	-3055924E-00	-3152086E-00	-7818027E-00	-1414820E-00
X(42)	-3363645E-02	-2242091E-00	-2885545E-00	-2868252E-00	-3828477E-01	-8910735E-02	-2282272E-00	-4702718E-01
X(46)	-1394051E-01	-1799318E-00	-2464493E-00	-2524889E-00	-5805698E-01	-1657009E-01	-3474840E-00	-4309399E-01
X(26)	-7587517E-01	-2841323E-00	-4398444E-00	-3807273E-00	-5633815E-01	-6400398E-01	-1062138E-00	-1444481E-01
MACH	-8109386E-00	-3120856E-00	-5986244E-00	-4265434E-00	-7728856E-00	-7509228E-00	-1192231E-00	-8931995E-02

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(1)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	3444352E-00	2218910E-00	1312995E-00	3143169E-00	2467042E-01	2787388E-02	2346184E-00	1234170E-00
X(19)	1402172E-00	3026692E-01	6448027E-00	8838644E-00	1266134E-01	7495848E-02	3157320E-00	771339E-00
DC	1134952E-01	4194226E-01	9090188E-00	6300669E-00	3513221E-02	9178753E-02	6632300E-00	9800635E-00
X(18)	7116201E-01	9895258E-02	7923926E-00	8241383E-00	3932784E-02	1044730E-01	5046182E-00	8929771E-00
X(8)	2216660E-00	2356984E-00	8958870E-01	3314784E-00	1873731E-01	4690019E-02	1659917E-00	8108574E-01
X(16)	4491738E-00	2241104E-00	1161497E-00	3255732E-00	1851103E-01	1670576E-01	2515093E-00	1004801E-00
X(26)	7139347E-01	8997274E-00	3185123E-01	4268394E-01	5175161E-00	7004568E-00	5122155E-01	1993722E-01
X(10)	9247746E-00	1123154E-00	5955834E-02	1725921E-00	1640818E-01	1121886E-00	4150944E-00	7618015E-01
X(3)	1000000E-01	1136338E-00	7240692E-02	1837842E-00	1540189E-01	1163550E-00	3836964E-00	8233461E-01
X(27)	1138336E-00	1000000E-01	4891111E-01	4188926E-01	3413549E-00	5473220E-00	7208820E-01	3458805E-01
X(11)	7240693E-02	4891111E-01	1000000E-01	6905230E-00	6576221E-02	1881934E-02	7209569E-00	9000220E-00
X(23)	1837943E-00	4188926E-01	6905230E-00	1000000E-01	1780785E-01	9666282E-02	3175626E-00	6619778E-00
X(13)	1540189E-01	3413549E-00	6576221E-02	1780785E-01	1000000E-01	7807697E-00	8607333E-02	2587540E-02
X(28)	1163550E-00	5473220E-00	1981934E-02	9666282E-02	7607697E-00	1000000E-01	3374101E-01	1533453E-01
X(25)	3836964E-00	7209569E-00	7209569E-00	3175626E-00	8607333E-02	3374101E-01	1000000E-01	5741841E-00
X(20)	8233461E-01	3450905E-01	9000220E-00	8619778E-00	2587540E-02	1533453E-01	5741841E-00	1000000E-01
X(14)	4441595E-00	2470908E-00	7699865E-01	3572254E-00	1129405E-01	3190744E-01	2330181E-00	5208325E-01
X(30)	7993864E-01	6880881E-00	2681994E-01	3734030E-01	8047198E-00	6540648E-00	4533700E-01	2421652E-01
DT	1538638E-01	4782878E-00	1705539E-02	2423472E-01	7909716E-00	9596573E-00	4042242E-03	5822881E-02
X(15)	4755205E-00	7353727E-01	1465516E-00	6423132E-01	5272085E-01	8787163E-01	3710214E-01	1886408E-00
X(43)	5472528E-01	1950020E-00	1688378E-00	1550054E-00	1082390E-00	1827218E-00	7449387E-01	2159034E-00
X(21)	2927361E-00	6413403E-01	6839471E-00	3155842E-00	6056712E-02	2147568E-01	8168241E-00	6707685E-00
X(47)	5249921E-01	3746181E-00	1771668E-00	1625506E-00	1625506E-00	2816520E-00	7629344E-01	1736627E-00
X(31)	1460439E-00	8304235E-00	5730075E-01	7190159E-01	6106451E-00	5513549E-00	8824031E-01	4946287E-01
X(42)	3649023E-01	1196199E-00	2506958E-00	1807593E-00	1532846E-00	2156561E-00	1502839E-00	2888603E-00
X(46)	2998580E-01	2368872E-00	2677632E-00	1910728E-00	2120759E-00	2938534E-00	1608986E-00	2474895E-00
X(36)	8844285E-02	4788214E-02	4034171E-00	2192105E-00	3408649E-00	2604146E-00	2963735E-00	4327064E-00
MACH	1569228E-01	1581235E-00	5072687E-00	9692949E-01	6664463E-01	7802838E-01	3734073E-00	5892913E-00

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(42)	X(21)	X(47)	X(31)
X(7)	9174169E-00	2039655E-00	-3159010E-01	4907623E-00	3298828E-01	2218800E-00	5370646E-01	3128727E-00
X(19)	2171230E-00	3299718E-01	-6735829E-02	3497184E-01	2034877E-00	4059777E-00	1556975E-00	3323256E-01
DC	8522185E-01	2907249E-01	6210086E-02	10707910E-00	2085173E-00	7624883E-00	1671785E-00	5866646E-01
X(18)	1412103E-00	2877903E-01	1078447E-02	5852302E-01	2377637E-00	8011618E-00	1935394E-00	4308970E-02
X(8)	8658567E-00	2576390E-00	1982314E-01	5792072E-00	5408944E-01	1582551E-00	7942416E-01	3055924E-00
X(16)	9185232E-00	2013205E-00	2858005E-01	3529248E-00	3486498E-01	2272328E-00	5672324E-01	3152086E-00
X(26)	2392475E-00	8104973E-00	6800943E-00	7994350E-01	2419592E-00	4599545E-01	3958036E-00	7918027E-00
X(10)	4154214E-00	8148956E-01	1827622E-01	4648888E-00	6064108E-01	3153020E-00	6244530E-01	1414820E-00
X(3)	4441595E-00	7993864E-01	1383838E-01	4755205E-00	5472528E-01	2927361E-00	5349921E-01	1460439E-00
X(27)	2470908E-00	6880881E-00	4782878E-00	7353727E-01	1850020E-00	6413403E-01	3746181E-00	8304235E-00
X(11)	7699865E-01	2681994E-01	1705539E-02	1465516E-00	1689378E-00	6939471E-00	1771668E-00	5730075E-01
X(23)	3734030E-01	3734030E-01	6423132E-01	6423132E-01	1550054E-00	3155842E-00	1635527E-00	7190159E-01
X(13)	1129405E-01	8047198E-00	7909716E-00	5272085E-01	1082390E-00	8056712E-02	1625506E-00	8106451E-00
X(28)	3190744E-01	6540648E-00	9596573E-00	8787163E-01	1827218E-00	2147568E-01	2816520E-00	5513549E-00
X(25)	2230181E-00	4533700E-01	4042242E-03	3710214E-01	7449387E-01	9188241E-00	7629344E-01	8824031E-01
X(20)	5208325E-01	2421652E-01	5922881E-02	1886408E-00	6470658E-00	6707685E-00	1736627E-00	4946287E-01
X(14)	1000000E-01	2556489E-00	1313604E-01	3784762E-00	6470658E-01	2034070E-00	8657798E-01	3211207E-00
X(30)	2556489E-00	1000000E-01	6423445E-00	9248067E-01	1799410E-00	4447823E-01	2890186E-00	9103570E-00
DT	1213604E-01	6423445E-00	1000000E-01	5810776E-01	1592429E-00	1879478E-02	2424034E-00	4955257E-00
X(15)	3784762E-00	9248067E-01	5810776E-01	1000000E-01	2890035E-01	4196888E-01	7163520E-02	1111415E-00
X(43)	6470658E-01	1789410E-00	1592429E-00	2900035E-01	1000000E-01	1072809E-00	8832842E-00	1575178E-00
X(21)	2034070E-00	4447823E-01	1879478E-02	4196888E-01	1072809E-00	1000000E-01	7950787E-01	8246381E-01
X(47)	8657798E-01	2890186E-00	2424034E-00	7163520E-02	8832842E-00	7950787E-01	1000000E-01	2939764E-00
X(31)	3211207E-00	9103570E-00	4955257E-00	1111415E-00	1575178E-00	8246381E-01	2939764E-00	1000000E-01
X(42)	4599465E-01	1887686E-00	2041432E-00	4498888E-01	9317340E-00	1861211E-00	825529E-00	1091636E-00
X(46)	6023039E-01	2788758E-00	2844893E-00	2489686E-01	825558E-00	1577470E-00	8210862E-00	2035267E-00
X(36)	4710544E-01	2095712E-00	2699373E-00	9494358E-01	6195702E-00	3268605E-00	541968E-00	8189542E-01
MACH	7032916E-00	1412707E-00	7760486E-01	6910031E-00	9956997E-01	4614634E-00	4964879E-01	2280832E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	3363645E-02	1366051E-01	7567517E-01	8109386E-00
X(8)	2242091E-00	1799316E-00	2641322E-00	3120856E-00
DC	285545E-00	2464493E-00	439644E-00	5866344E-00
X(18)	2968252E-00	2534889E-00	3607273E-00	4265434E-00
X(6)	3929677E-01	5805698E-01	5633815E-01	7728858E-00
X(16)	8910735E-02	1657009E-01	6640396E-01	7509229E-00
X(26)	2282272E-00	3474840E-00	1082139E-00	1192231E-00
X(10)	4702718E-01	4309398E-01	1444481E-01	8931893E-02
X(9)	3649023E-01	2998580E-01	8844285E-02	1568228E-01
X(27)	1196198E-00	2365872E-00	4788214E-02	1591235E-00
X(17)	2806959E-00	2675432E-00	4034171E-00	5072487E-00
X(23)	1007583E-00	910728E-00	2192105E-00	9892849E-01
X(13)	1532048E-00	2120758E-00	3408648E-00	666463E-01
X(28)	2156561E-00	2928534E-00	2604146E-00	780239E-01
X(25)	1502638E-00	1609865E-00	2963735E-00	3734073E-00
X(20)	2898603E-00	2474895E-00	4337064E-00	5892913E-00
X(14)	4582463E-01	6023039E-01	4710544E-01	7032816E-00
X(30)	1889768E-00	2789758E-00	2097121E-00	1412707E-00
DT	2041433E-00	2844893E-00	2699772E-00	7760488E-01
X(15)	4458889E-01	2489686E-01	9494256E-01	6910031E-00
X(43)	9317940E-00	825558E-00	6195702E-00	898897E-01
X(21)	1881211E-00	1577870E-00	3386865E-00	6614634E-00
X(47)	8285528E-00	9210862E-00	5419689E-00	4864579E-01
X(31)	1091636E-00	2035267E-00	8169542E-01	2280822E-00
X(42)	1000000E-01	9039057E-00	7697376E-00	1515145E-00
X(46)	9039057E-00	1000000E-01	8986710E-00	1089439E-00
X(36)	7697376E-00	8986710E-00	1000000E-01	2751341E-00
MACH	1515145E-00	1089439E-00	2751341E-00	1000000E-01

SUMS OF SQUARES AND CROSS PRODUCT MATRIX FOR TOTAL

FRIDAY, JUL 2, 1976

	X(7)	X(18)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	4793711E-04	1043505E-05	2704321E-05	9919502E-04	9848778E-03	1703276E-04	1483595E-04	5707330E-04
X(8)	1043505E-05	1035658E-05	1990133E-05	3480512E-05	3130858E-05	4156654E-05	8100922E-05	3355988E-05
DC	2704321E-05	1990133E-05	6953701E-07	6547689E-07	4158464E-04	8582821E-04	4895516E-05	7304553E-06
X(18)	9919502E-04	3480512E-05	6547689E-07	1340366E-08	7762070E-04	4618775E-04	3017469E-04	6408192E-07
X(6)	9848778E-03	3130858E-05	4158464E-04	7762070E-04	2522796E-03	3299966E-03	1157518E-04	8771725E-05
X(16)	1703276E-04	4156654E-05	8582821E-04	4618775E-04	3299966E-03	6197782E-03	6040495E-03	2561102E-06
X(26)	1483595E-04	8100922E-05	4895516E-05	3017469E-04	1157518E-04	6040495E-03	6103293E-06	7565439E-06
X(10)	5707330E-06	3355988E-05	7304553E-06	6408192E-07	8771725E-05	2561102E-06	7565439E-06	6262139E-09
X(9)	2599576E-02	1561472E-04	3299966E-02	2854874E-03	3848251E-01	1218555E-02	2809813E-02	2526106E-05
X(23)	1483326E-05	1034981E-06	2198267E-06	8238828E-05	5876289E-04	3876289E-04	1641889E-07	4271387E-07
X(11)	3840816E-07	2829622E-10	1030328E-10	1247049E-10	6030064E-08	1221899E-07	1092118E-08	6355631E-08
X(22)	3840893E-08	1471759E-11	2715552E-10	4824932E-10	2684268E-07	1342017E-08	3271026E-08	7073711E-10
X(13)	3321631E-07	2093895E-08	6583190E-07	4300015E-08	5198835E-06	1049325E-07	3458704E-08	7982721E-08
X(28)	1044625E-04	5704421E-05	2080827E-04	1173216E-05	1548803E-03	3207467E-03	1277309E-04	2024580E-06
X(25)	1160664E-11	2328929E-13	1284998E-13	1336754E-13	1889633E-10	4480917E-10	2941250E-11	7508838E-13
X(20)	7237811E-04	6721896E-07	2237054E-07	2800970E-07	1093656E-04	2117928E-04	1269400E-05	1634910E-07
X(14)	2610340E-03	1266430E-05	1266430E-05	2884579E-04	8719933E-02	1299950E-03	4154456E-03	5905502E-05
X(30)	5212874E-07	6171939E-07	5913265E-08	1736527E-08	1668773E-07	1916919E-07	5394274E-09	1130817E-10
DT	3844440E-04	2145195E-08	8707752E-04	4550813E-05	5798700E-03	1264658E-04	2813887E-06	1161539E-05
X(15)	2656288E-07	2525042E-08	3507974E-08	1815535E-08	7251334E-08	6932885E-08	1178206E-07	6091232E-09
X(43)	3088045E-05	4030180E-09	1123828E-09	1743591E-09	1109500E-06	5225637E-05	4506353E-08	3010919E-09
X(21)	6461447E-08	1750463E-11	8561461E-10	5373668E-10	1040610E-08	2382518E-08	1368529E-09	3260946E-11
X(47)	1989442E-08	4718507E-11	1448328E-11	2244469E-11	2652919E-08	1220768E-08	1618707E-11	4448246E-11
X(31)	3222816E-09	1603105E-09	2178162E-09	8072539E-09	7810861E-07	1189924E-08	1423124E-10	6331621E-10
X(42)	1926802E-06	1668799E-09	5901661E-08	8245830E-08	1894865E-05	5331218E-05	2830665E-08	8594521E-08
X(46)	3497489E-08	2098391E-11	8281278E-10	1141880E-11	4772072E-07	1057032E-08	6601164E-10	1256195E-11
X(36)	4820306E-08	1641696E-12	7411658E-11	8293394E-11	7970977E-08	1550256E-09	1702339E-11	1869628E-11
MACH	1258247E-03	6870245E-04	3466487E-04	3415635E-04	2742338E-02	4192448E-02	1004833E-03	4201198E-03

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	2598576E-02	1483226E-05	384041E-07	3605993E-08	3221631E-07	1044425E-04	1160664E-11	723761E-04
X(19)	1561472E-04	1034881E-06	282962E-10	1471759E-11	2083895E-09	5704421E-05	2326928E-13	6721869E-07
DC	3298858E-02	2198287E-06	1030328E-10	2715552E-10	6583190E-07	2080827E-04	1264998E-13	2237054E-07
X(18)	2854874E-03	8358828E-05	1247049E-10	4431932E-10	4300015E-08	1173216E-05	1336754E-13	2800970E-07
X(6)	3848251E-01	4560356E-04	6030044E-06	8684268E-07	5188835E-06	1548803E-03	1889633E-10	1083656E-04
X(16)	1218555E-02	5676246E-04	1221619E-07	1342017E-08	1068325E-07	3207467E-03	4480917E-10	2117929E-04
X(26)	2809813E-02	1641859E-07	1092119E-08	3271028E-08	3459704E-09	1277309E-06	2541250E-11	1268400E-05
X(10)	2526106E-05	4271387E-07	6555631E-08	7072711E-10	7992721E-08	2024560E-06	7508638E-13	1634810E-07
X(9)	1181536E-01	1828913E-03	3480601E-04	3289201E-06	1491286E-04	8587426E-01	3026865E-09	7709861E-02
X(27)	1826913E-03	4998074E-07	4403230E-08	4676125E-08	8305621E-09	3192509E-08	1049553E-12	5982815E-05
X(11)	3490801E-04	4603330E-08	1847553E-12	4883400E-12	1778828E-10	1889135E-07	2272449E-15	3314744E-09
X(23)	3289201E-06	4676125E-08	4853400E-12	2677092E-13	5282745E-11	1781148E-08	2763295E-15	8289513E-09
X(13)	1481286E-04	8305621E-09	1776828E-10	5282745E-11	3164286E-12	8814064E-08	2718808E-13	2142154E-07
X(28)	8587426E-01	3192509E-08	1089135E-07	1781148E-08	8914064E-08	3261734E-05	4125519E-10	1074784E-03
X(25)	3026865E-09	1049553E-12	2272649E-15	3763295E-15	2718908E-13	4125519E-10	5231035E-18	3558633E-12
X(20)	7709861E-02	5982815E-05	3314744E-09	9268513E-09	2142154E-07	1074784E-03	3558633E-12	7341936E-06
X(14)	2755253E-01	1783914E-04	1852717E-06	3345404E-07	1625730E-08	3975952E-02	9516507E-08	2506204E-03
X(30)	4835364E-05	1425312E-10	1057339E-11	5184520E-10	3909749E-12	1125434E-08	2636583E-14	1630654E-08
DT	2876237E-01	9550417E-06	3428532E-07	6149547E-08	2769169E-09	9968952E-05	6538034E-10	2488725E-04
X(15)	4053781E-05	5485277E-08	4882203E-10	8895756E-10	4234256E-10	1818370E-07	2184487E-13	1266795E-08
X(43)	1152348E-05	1675588E-09	1458330E-11	4582799E-11	3542742E-11	1388318E-08	1031478E-14	3786527E-08
X(21)	1358345E-07	5571785E-09	1270212E-13	2201406E-13	1890384E-11	1934148E-08	2823500E-16	2447323E-10
X(47)	1766865E-07	4491637E-11	2456881E-13	7374543E-13	6515578E-13	3338185E-10	1657420E-16	4907079E-10
X(31)	2808243E-06	4316721E-10	5428748E-11	9592839E-11	9186093E-12	2742701E-09	1338209E-15	8763011E-08
X(42)	2720115E-04	6392228E-08	8241847E-10	1991300E-11	1746955E-11	8508061E-07	8213066E-13	1922880E-08
X(46)	3325584E-06	1597097E-11	1447093E-13	3321480E-13	3953890E-13	1466631E-10	1423565E-16	2708181E-10
X(36)	3357611E-06	3317838E-11	1100168E-14	2075684E-14	1749992E-14	4933482E-10	1351111E-17	2375661E-11
MACH	3323823E-01	2786135E-02	4790498E-06	3128288E-06	2001088E-06	7125788E-02	5919309E-09	1112775E-04

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	3610340E-03	5212874E-07	3844440E-04	2636386E-07	3098045E-05	6461647E-08	1969442E-08	3223916E-09
X(19)	1266430E-05	6171939E-07	2145198E-06	2525062E-08	4030160E-09	1740463E-11	4718507E-11	1605105E-09
DC	1266236E-04	5813285E-08	8707792E-04	3507974E-08	1123828E-09	8561461E-10	1448328E-11	3176162E-09
X(18)	2864579E-04	1726527E-08	4550813E-05	1615535E-08	1743591E-08	9373668E-10	2244469E-11	8073539E-08
X(6)	8719933E-02	1988773E-07	5798700E-03	7251324E-06	1109580E-06	1060610E-08	2652919E-08	7810861E-07
X(16)	1298500E-03	1816919E-07	1264656E-04	6993845E-06	5223637E-05	2382518E-08	1220768E-08	1188924E-08
X(26)	4154456E-03	5394274E-08	3813897E-06	1178206E-07	8606953E-09	1348528E-09	1618707E-11	1423124E-10
X(10)	5905502E-05	1170617E-10	1161529E-05	9091223E-08	3010919E-09	3360648E-11	4949266E-11	6331621E-10
X(8)	2755253E-01	4635364E-05	2676237E-01	4053781E-05	1153368E-05	1359345E-07	1766865E-07	2808243E-06
X(27)	1763914E-04	1425312E-10	9550417E-06	5485277E-08	1675588E-09	5571785E-09	4491637E-11	4316721E-10
X(11)	1852717E-06	1057339E-11	3428532E-07	4882203E-10	1458336E-11	1270212E-13	2456881E-13	5428748E-11
X(23)	3345404E-07	5184520E-10	6149547E-08	8895756E-10	4562796E-11	2201406E-13	7374543E-13	9592839E-11
X(13)	1625730E-08	3909749E-12	2769169E-09	4234256E-10	3542742E-11	1890384E-11	8515578E-13	9186093E-12
X(28)	3975952E-02	1125434E-08	9968952E-05	1618370E-07	1398318E-08	1934148E-08	3338185E-10	2742701E-09
X(25)	9516507E-08	2636583E-14	6538034E-10	2194467E-13	1031478E-14	2823500E-16	1657420E-16	1338209E-15
X(20)	2506204E-03	1420654E-08	2498725E-04	1266795E-08	3786527E-08	2447323E-10	4907079E-10	8763011E-08
X(14)	3231531E-02	7070282E-06	1896185E-03	1703141E-06	5338474E-05	4888473E-07	1113759E-08	2974633E-07
X(30)	7670382E-06	6120704E-12	3439017E-09	1148888E-10	555451E-11	1507461E-12	1378488E-14	1607106E-15
DT	1886185E-03	3439017E-09	3098780E-06	4375438E-07	4131902E-08	3430907E-08	8947465E-10	8158288E-09
X(15)	1703141E-06	1148888E-10	4375438E-07	6147820E-10	9182376E-09	1350897E-11	1223348E-12	4488930E-10
X(43)	5334874E-05	555451E-11	4121902E-08	9182376E-09	4747346E-11	8982322E-11	7246903E-13	1389644E-12
X(21)	4808473E-07	1507461E-12	3430907E-08	1350897E-11	8982322E-11	1812975E-14	1027591E-14	7280018E-12
X(47)	1113759E-08	1278488E-14	8947465E-10	1223348E-12	7246903E-13	1027591E-14	1393380E-16	3714722E-14
X(31)	2979633E-07	1607106E-13	8158288E-09	8488930E-10	1389644E-12	7280018E-12	3714722E-14	4836897E-13
X(42)	9584913E-04	2466888E-11	1983101E-08	4837819E-09	1731670E-11	6066037E-11	2766010E-13	5338804E-11
X(46)	1990630E-07	5750829E-13	4488457E-10	7201367E-11	2707485E-13	8225837E-13	5190762E-15	1335877E-14
X(36)	2678515E-08	1910703E-14	1531271E-11	6219487E-12	9742041E-13	9071681E-14	1528866E-16	2576787E-14
MACH	8937988E-01	1262246E-05	2195274E-03	1217902E-06	6924339E-05	4314064E-07	8344784E-07	5177181E-06

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(26)	MACH
X(7)	1826802E+06	3497489E+08	4820308E+09	1258247E+03
X(19)	1666798E+09	2093391E+11	1641698E+12	6870245E+04
DC	5901661E+08	8281278E+10	7611658E+11	3466487E+04
X(18)	8245830E+08	1141680E+11	8292384E+11	2415835E+04
X(6)	1694865E+05	4772072E+07	7970877E+08	2742338E+02
X(16)	5331218E+05	1057022E+08	1550256E+09	4192448E+02
X(26)	2830865E+08	6901164E+10	1702239E+11	1006483E+03
X(10)	8594521E+08	1256195E+11	1668435E+11	4201198E+03
X(8)	2720115E+04	3335584E+06	3357811E+06	3323823E+01
X(27)	6382228E+08	1597087E+11	3217839E+11	2786135E+02
X(11)	8241867E+10	1447093E+13	1100148E+14	4790499E+06
X(23)	1991300E+11	3221480E+13	2075684E+14	3128288E+06
X(13)	1746955E+11	3953890E+13	1748892E+14	2001088E+06
X(28)	6508061E+07	1466631E+10	4923482E+10	7125788E+02
X(25)	8732088E+12	1422565E+16	1351111E+17	5819308E+08
X(20)	1828980E+08	2708161E+10	2278661E+11	1112775E+04
X(14)	9548112E+04	1990630E+07	2478515E+08	8827885E+01
X(30)	2466889E+11	5750229E+12	1810703E+14	1262348E+05
DT	1983101E+08	4488457E+10	1531271E+11	2195274E+03
X(15)	4837819E+09	7201367E+11	6218487E+12	1217902E+06
X(43)	1731670E+11	2707496E+13	8742041E+13	6924238E+05
X(21)	6066037E+11	8225837E+13	9071681E+14	4214064E+07
X(47)	2706101E+13	5190782E+15	1528866E+16	9344784E+07
X(31)	5338804E+11	1335877E+14	3573678E+14	5177161E+06
X(42)	7194988E+10	1153694E+13	4598041E+13	3761398E+05
X(46)	1153694E+13	2208933E+15	7438717E+15	5678745E+07
X(34)	4588041E+12	7638717E+15	4630851E+16	4896204E+08
MACH	3761398E+05	5678746E+07	4896204E+08	5006711E+01

SUMS OF SQUARES AND CROSS PRODUCT MATRIX FOR TREATMENT.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	4399830E+02	2631543E+04	1705825E+03	6197610E+03	6683178E+01	1474655E+02	4164258E+04	1375818E+04
X(19)	2631543E+04	1573892E+06	1020232E+05	3706712E+05	3997124E+03	8819724E+03	2490651E+08	8228596E+05
DC	1705825E+03	1020232E+05	6613376E+03	2402774E+04	2591026E+02	5717143E+02	1614498E+05	5332366E+04
X(18)	6197610E+03	3706712E+05	2402774E+04	8729769E+04	9413725E+02	2077155E+03	5865792E+05	1937937E+05
X(6)	6683178E+01	3997124E+03	2591026E+02	9413725E+02	1015127E+01	2239895E+01	6325363E+03	2089768E+03
X(16)	1474655E+02	8819724E+03	5717143E+02	2077155E+03	2239895E+01	4842368E+01	1295792E+04	4611112E+03
X(26)	4164258E+04	2490651E+08	1614498E+05	5865792E+05	6325363E+03	1295792E+04	3841401E+06	1302158E+06
X(10)	1375818E+04	8228596E+05	5332366E+04	1937937E+05	2089768E+03	4611112E+03	1302158E+06	4302060E+05
X(8)	8594537E+01	5140284E+01	3332048E+00	1210601E+01	1305448E+01	2880495E+01	8134388E+01	2687434E+01
X(27)	1012161E+05	6059589E+08	3927962E+05	1427109E+06	1538919E+04	3395652E+04	9589169E+06	3188044E+06
X(11)	4814217E+05	2879322E+07	1866442E+06	6781163E+06	7312451E+04	1613505E+05	4556466E+07	1505362E+07
X(22)	6088082E+06	4114890E+08	2667384E+07	9691079E+07	1045033E+06	2305888E+06	6511725E+08	2151340E+08
X(13)	2647731E+07	1583575E+09	1026509E+08	2729515E+08	4021714E+06	8873980E+06	2505972E+09	8279216E+08
X(28)	1086748E+04	8344200E+05	4112453E+04	1494138E+05	1611200E+03	3555141E+03	1003956E+06	3316863E+05
X(20)	8617888E+08	5154248E+10	3241100E+09	1213880E+10	1308995E+08	2888320E+08	8156487E+10	2694735E+10
X(20)	5020044E+02	3002425E+04	1846239E+03	7071080E+03	7625087E+01	1682488E+02	4751272E+04	1589722E+04
X(14)	2279506E+01	1363344E+03	8827501E+01	3210844E+02	3462406E+00	7639858E+00	2157462E+03	7127810E+02
X(30)	3380738E+07	1968148E+09	1275798E+08	4632523E+08	4998395E+06	1102904E+07	3114553E+09	1028894E+09
DT	3300777E+04	1974152E+06	1279690E+05	4648378E+05	5013444E+03	1106268E+04	3124055E+08	1022123E+06
X(15)	4318613E+05	2582908E+07	1674299E+06	6083089E+06	6559663E+04	1447401E+05	4087396E+07	1350391E+07
X(43)	4407905E+06	2636312E+08	1708917E+07	6208843E+07	6695291E+05	1477327E+06	4171907E+08	1378312E+08
X(21)	4829737E+06	2994586E+08	1876335E+07	6817109E+07	7351213E+05	1822058E+06	4580619E+08	1512342E+08
X(47)	1053419E+09	6300345E+10	4088038E+09	1483814E+10	1600068E+08	3530578E+08	9970191E+10	3292945E+10
X(37)	7911295E+07	4671831E+09	3028386E+08	1106274E+09	1186478E+07	2617985E+07	7383072E+09	2442518E+08
X(42)	2106098E+08	1261425E+08	8176842E+06	2876813E+07	3203588E+05	7688731E+05	1898178E+08	6594861E+07
X(46)	4750825E+08	2681410E+10	1841868E+09	8891898E+09	7216177E+07	1582382E+08	4486477E+10	1485543E+10
X(36)	1462717E+09	8748325E+10	5870861E+09	2060338E+10	2221762E+08	4802356E+08	1384404E+11	4573798E+10
MACH	2355607E+01	1408859E+03	9122540E+01	3218038E+02	3577998E+00	7894815E+00	2229488E+03	7365771E+02

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	.8594537E-01	.1013161E+05	.4814217E+05	.6880082E+06	.2847731E+07	.1060748E+04	.8617886E+08	.502004E+02
X(19)	.5140284E+01	.6058589E+06	.2879323E+07	.4114890E+08	.1583575E+09	.6344200E+05	.5154249E+10	.3002425E+04
OC	.3332088E+00	.3927962E+05	.1866442E+06	.2667364E+07	.1026509E+08	.4112453E+04	.3341100E+08	.1946238E+03
X(18)	.1210501E+01	.1427109E+06	.6781162E+06	.8691079E+07	.3729515E+08	.1494138E+05	.1213890E+10	.7071084E+03
X(6)	.1305469E+01	.1528919E+04	.7312451E+04	.1045035E+04	.4021714E+06	.1611200E+03	.1308895E+08	.7625087E+01
X(16)	.2880495E+01	.3395652E+04	.1613505E+05	.2305888E+04	.8873980E+06	.3555141E+03	.2883200E+08	.1682488E+02
X(26)	.8134388E+01	.9589169E+06	.4556466E+07	.6511725E+08	.2505972E+09	.1003956E+06	.8156487E+10	.4751272E+04
X(10)	.2687434E+01	.3168064E+06	.1505362E+07	.2151340E+08	.8278216E+08	.3316863E+05	.2694735E+10	.1568722E+04
X(8)	.1678801E+03	.1979043E+02	.9403779E+02	.1343910E+04	.5171904E+04	.2071994E+01	.1623262E+06	.9805828E-01
X(27)	.1979043E+02	.2332882E+07	.1108558E+08	.1584280E+09	.6096866E+09	.2442559E+06	.1984420E+11	.1155953E+05
X(11)	.9403779E+02	.1108558E+08	.5267513E+08	.7527895E+09	.2897036E+10	.1160626E+07	.9429327E+11	.5492720E+05
X(23)	.1343910E+04	.1584260E+09	.7527895E+09	.1075825E+11	.4140204E+11	.1658670E+08	.1347562E+13	.7849742E+06
X(12)	.5171906E+04	.6096866E+09	.2897036E+10	.4140204E+11	.1593316E+12	.6283228E+08	.5185956E+12	.3020895E+07
X(28)	.2071996E+01	.2442559E+06	.1160626E+07	.1658670E+08	.6283228E+08	.2857282E+05	.2077425E+10	.1210247E+04
X(25)	.1623262E+06	.1984420E+11	.9429327E+11	.1347562E+13	.5185956E+12	.2077425E+10	.1687635E+15	.8832467E+08
X(20)	.8832467E+08	.1155953E+05	.5492720E+05	.7849742E+06	.3020895E+07	.1210247E+04	.9832467E+08	.5727555E+02
X(14)	.4452638E+02	.5248963E+03	.2494139E+04	.3564418E+05	.1371731E+06	.5495500E+02	.4464735E+07	.2600773E+01
X(30)	.6427913E+04	.7577502E+09	.3600586E+10	.5145661E+11	.1980256E+12	.7833408E+08	.6445276E+13	.3754526E+07
DT	.6447523E+01	.7600620E+06	.2611571E+07	.5161259E+08	.1988298E+09	.7957811E+05	.6485040E+10	.3765980E+04
X(15)	.8435698E+02	.9844365E+07	.4725244E+08	.6752928E+09	.2598797E+10	.1041144E+07	.8458615E+11	.5029143E+06
X(42)	.8610114E+03	.1014898E+09	.4822943E+09	.6892552E+10	.2652530E+11	.1062671E+08	.8633506E+12	.5029143E+06
X(21)	.8453627E+03	.1114434E+09	.5295436E+09	.7567799E+10	.2812392E+11	.1166778E+08	.8479310E+12	.5521836E+06
X(47)	.2057680E+06	.2425682E+11	.1152406E+12	.1647210E+13	.6339123E+13	.2539813E+10	.2063270E+15	.1201885E+09
X(31)	.1528919E+05	.1788866E+10	.8546778E+10	.1221435E+12	.4700571E+12	.1893188E+09	.1529951E+14	.8912187E+07
X(42)	.4119776E+03	.4856570E+08	.2307686E+09	.3297955E+10	.1281185E+11	.5084677E+07	.4130683E+12	.2406348E+06
X(46)	.1279872E+05	.1092963E+11	.5188163E+11	.7428785E+12	.2858894E+13	.1145345E+10	.9305183E+14	.5420405E+08
X(36)	.2857176E+06	.3366163E+11	.1400443E+12	.2287221E+13	.8802143E+13	.3526361E+10	.2864938E+15	.1688868E+09
NACH	.4601290E-02	.5424200E+03	.2577406E+04	.3683416E+05	.1417526E+06	.5678967E+02	.4613790E+07	.2687600E-01

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(42)	X(21)	X(47)	X(31)
X(7)	.2279566E+01	.3290738E+07	.3306777E+04	.4318613E+05	.4407905E+06	.4839737E+04	.1053418E+09	.7811285E+07
X(19)	.1363344E+03	.1988149E+09	.1974163E+04	.2582904E+07	.2634312E+08	.2894586E+08	.6300365E+10	.4671821E+09
OC	.8827501E+01	.1275798E+08	.1278690E+05	.1674298E+06	.1708917E+07	.1876335E+07	.4084038E+09	.3028282E+08
X(18)	.3210844E+02	.4635235E+08	.4648376E+05	.6082069E+06	.6208843E+07	.6817109E+07	.1483814E+10	.1100274E+08
X(6)	.3462406E+00	.4898395E+06	.5013644E+05	.6558663E+04	.6695291E+05	.7351213E+05	.1600068E+08	.1186478E+07
X(16)	.7629858E+00	.1102904E+07	.1106289E+04	.1447401E+05	.1477327E+06	.1622058E+06	.3530576E+08	.2617985E+07
X(26)	.2157482E+03	.3114553E+09	.3124055E+06	.4087396E+07	.4171907E+08	.4580619E+08	.9870191E+10	.7393072E+09
X(10)	.7127810E+02	.1028984E+09	.1032123E+08	.1350391E+07	.1278312E+08	.1512342E+08	.3283945E+10	.2442518E+09
X(8)	.4452639E+02	.6427913E+04	.6447523E+01	.8435698E+02	.8610114E+03	.9453627E+03	.2057680E+06	.1525806E+05
X(27)	.5248963E+03	.7577502E+09	.7600620E+06	.9844365E+07	.1014898E+09	.1114434E+09	.2425682E+11	.1788866E+10
X(11)	.2494139E+04	.3600586E+10	.3611571E+07	.4725244E+08	.4822943E+09	.5295436E+09	.1152406E+12	.8546778E+10
X(23)	.3564418E+05	.5145661E+11	.5161350E+08	.6752928E+09	.6892552E+10	.7567799E+10	.1647210E+13	.1221435E+12
X(12)	.1371731E+06	.1980256E+12	.1988298E+09	.2598797E+10	.2652530E+11	.2812392E+11	.6339123E+13	.4700571E+12
X(28)	.5495500E+02	.7833408E+08	.7957811E+05	.1041144E+07	.1062671E+08	.1166778E+08	.2539613E+10	.1893188E+09
X(25)	.4464735E+07	.6445276E+13	.6465040E+10	.8458615E+11	.8633506E+12	.9479310E+12	.2063270E+15	.1529951E+14
X(20)	.2600773E+01	.3765980E+04	.3765980E+04	.4927266E+05	.5029143E+06	.5521836E+06	.1201885E+09	.8912187E+07
X(14)	.1180961E+00	.1704898E+06	.1710059E+03	.2227377E+04	.2283638E+05	.2507260E+05	.5457528E+07	.4046854E+06
X(30)	.1704898E+06	.2467168E+12	.2468674E+09	.3229920E+10	.3296702E+11	.3619673E+11	.7878992E+13	.5842114E+12
DT	.1710059E+03	.2468674E+09	.2478205E+06	.3238774E+07	.3306760E+08	.3630715E+08	.7902627E+10	.5859937E+09
X(15)	.2227377E+04	.3229920E+10	.3238774E+07	.4328785E+08	.4328440E+09	.4750292E+09	.1033950E+12	.7686921E+10
X(42)	.2283638E+05	.3296702E+11	.3296760E+08	.4328440E+09	.4615896E+10	.4848508E+10	.1055328E+13	.7895443E+11
X(21)	.2507260E+05	.3619673E+11	.3630715E+08	.4750292E+09	.4848508E+10	.5323506E+10	.1158716E+13	.8592084E+11
X(47)	.5457529E+07	.7878992E+13	.7902627E+10	.1033950E+12	.1055328E+13	.1158716E+13	.2522066E+15	.1870156E+14
X(31)	.4046854E+06	.5842114E+12	.5859937E+09	.7686921E+10	.7825443E+11	.8592084E+11	.1870156E+14	.1386753E+13
X(42)	.1092877E+05	.1577409E+11	.1582222E+08	.2078119E+09	.2112921E+10	.2319919E+10	.5049544E+12	.3744226E+11
X(46)	.2461302E+07	.3553182E+13	.3564022E+10	.4663033E+11	.4759446E+12	.5225718E+12	.1137431E+15	.8434254E+13
X(36)	.7578012E+07	.1093976E+14	.1097314E+11	.1425684E+12	.1465368E+13	.1608927E+13	.3501995E+15	.2596791E+14
NACH	.1220388E+00	.1761775E+06	.1767150E+03	.2312072E+04	.2359377E+05	.2591068E+05	.5639728E+07	.4181957E+06

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	-210808E-06	-4750835E-08	-1462717E-09	-2355407E-01
X(19)	-1261425E-08	-2841414E-10	-8748325E-10	-1408859E-03
DC	-8176842E-06	-1841869E-09	-5670861E-09	9132540E-01
X(18)	-2970813E-07	-6891884E-09	-2060339E-10	-3318038E-02
X(6)	-3203568E-05	-7216177E-07	-2221762E-08	-3577888E-00
X(16)	-7068731E-05	-1592242E-08	-4902356E-08	-7894915E-00
X(26)	-1996178E-08	-4496477E-10	-1384404E-11	-2229489E-03
X(10)	-6594961E-07	-1488543E-10	-4577784E-10	-7165771E-02
X(8)	-4118778E-03	-9278972E-05	-2857176E-06	-4601280E-02
X(27)	-4856570E-04	-1093363E-11	-3358163E-11	-5424200E-03
X(11)	-2307686E-09	-5188163E-11	-1600443E-12	-2577406E-04
X(23)	-3297959E-10	-7428785E-12	-2287227E-12	-3682416E-05
X(13)	-1269185E-11	-2858894E-13	-8802143E-13	-1417526E-06
X(28)	-5084677E-07	-1145245E-10	-3526361E-10	-5678967E-02
X(25)	-4130908E-12	-8305183E-14	-2864938E-15	-4613790E-07
X(20)	-2408349E-06	-5420405E-08	-1668868E-09	-2687800E-01
X(14)	-1082677E-05	-2481302E-07	-7578012E-07	-1220388E-00
X(30)	-1577409E-11	-3553182E-13	-1093974E-14	-1761775E-06
DT	-1582222E-08	-3544022E-10	-1097314E-11	-1767150E-03
X(15)	-2070119E-09	-4663033E-11	-1435684E-12	-2312072E-04
X(43)	-2112921E-10	-4759444E-12	-1465268E-13	-2359877E-05
X(21)	-2319919E-10	-5225718E-12	-1608927E-13	-2591068E-05
X(47)	-5049544E-12	-1137431E-15	-3501985E-15	-5638728E-07
X(31)	-3744326E-11	-8434254E-13	-2596791E-14	-4181957E-06
X(42)	-1010993E-10	-2277304E-12	-7011507E-12	-1129156E-05
X(46)	-2277304E-12	-5129725E-14	-1579372E-15	-2564473E-07
X(36)	-7011507E-12	-1579372E-15	-4862670E-15	-7831003E-07
MACH	-1129156E-05	-2543473E-07	-7831003E-07	-1261130E-00

SUMS OF SQUARES AND CROSS PRODUCT MATRIX FOR ERROR.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-4749712E-04	-1017190E-06	-2721379E-05	-9289741E-04	-9781947E-03	-1888530E-04	-5647954E-04	-5693571E-04
X(19)	-1017190E-06	-1034684E-09	-1988113E-08	-3476808E-08	-1090887E-05	-4068456E-05	-1600558E-05	-3347739E-08
DC	-2721379E-05	-1988113E-08	-6552040E-07	-8545288E-07	-4188374E-04	-8640982E-04	-3081020E-05	-7251213E-06
X(18)	-9289741E-04	-3476808E-08	-8545288E-07	-1339493E-08	-7668933E-04	-4411060E-04	-5540045E-05	-4386813E-07
X(6)	-9781947E-03	-1090887E-05	-4188374E-04	-7668933E-04	-2512644E-03	-3277567E-03	-1790055E-04	-8750828E-05
X(16)	-1888530E-04	-4068456E-05	-8640982E-04	-4411060E-04	-3277567E-03	-6148358E-03	-1999752E-04	-2556481E-04
X(26)	-5647954E-04	-1600558E-05	-3081020E-05	-5564045E-05	-1790055E-04	-1999752E-04	-2161882E-04	-8867586E-04
X(10)	-5693571E-06	-3347739E-08	-7251213E-06	-6388813E-07	-8750828E-05	-2556481E-04	-8867586E-04	-6261708E-09
X(8)	-2590981E-02	-1556331E-04	-3266539E-04	-2842768E-03	-3835187E-01	-1215674E-02	-3822352E-02	-2525837E-05
X(27)	-2496488E-05	-5024608E-06	-1805491E-06	-5912258E-05	-6099276E-04	-9071887E-04	-6829423E-04	-4588182E-07
X(11)	-3888588E-07	-8267425E-10	-1030141E-10	-1246370E-10	-9103168E-06	-1237754E-07	-4344727E-07	-4405085E-08
X(23)	-3537193E-08	-1667644E-11	-2712884E-10	-4925241E-10	-8578765E-07	-1316958E-08	-3240889E-08	-7052119E-10
X(13)	-6739001E-06	-5103202E-08	-3671897E-07	-5704488E-07	-1177221E-06	-1816265E-06	-9537315E-08	-1627184E-09
X(28)	-1612346E-02	-6397790E-04	-2031626E-04	-3209222E-04	-6239728E-01	-3476734E-02	-2733531E-05	-2356246E-04
X(25)	-1169282E-11	-2321775E-13	-1264664E-13	-1335540E-13	-1902723E-10	-4509800E-10	-1725601E-11	-7511333E-13
X(20)	-7287811E-04	-6718867E-07	-2236880E-07	-2800263E-07	-1101281E-04	-2134754E-04	-7942732E-04	-1633340E-07
X(14)	-3587545E-03	-1252797E-05	-1275074E-04	-2932471E-04	-8635309E-02	-1292310E-03	-6311918E-03	-5898274E-05
X(30)	-8503612E-07	-2029848E-09	-4637487E-08	-6371783E-08	-2468613E-07	-3019824E-07	-2279721E-09	-1233715E-10
DT	-5436630E-03	-1710460E-05	-4089113E-04	-8056285E-03	-7650567E-02	-1582880E-02	-7896419E-05	-1148277E-04
X(15)	-2593199E-07	-2783333E-08	-3524717E-08	-1676366E-08	-7185738E-06	-6849105E-06	-2809190E-07	-8104736E-09
X(43)	-4717708E-06	-4233791E-09	-1409188E-09	-1805479E-09	-1779110E-06	-1998491E-06	-2334446E-08	-3148750E-09
X(21)	-6510045E-08	-1757546E-11	-6559585E-10	-9366851E-10	-1067961E-08	-2398739E-08	-8104666E-08	-2362159E-11
X(47)	-1250363E-08	-5348544E-11	-1489168E-11	-2392850E-11	-4252987E-08	-4751344E-08	-6218882E-10	-5278641E-11
X(31)	-4005044E-08	-6276936E-09	-2873324E-09	-2929204E-08	-8997239E-07	-1451722E-08	-6838171E-09	-6575873E-10
X(42)	-1222966E-05	-1792941E-09	-5983430E-08	-8542911E-08	-4898434E-05	-1737513E-05	-8344867E-07	-9254017E-08
X(46)	-1253346E-08	-2383532E-11	-8465464E-10	-1208599E-11	-1198825E-08	-5352286E-07	-2104688E-10	-1404750E-11
X(36)	-3357889E-09	-1729179E-12	-7468366E-11	-8498428E-11	-5749215E-08	-1060020E-09	-3178254E-10	-2327013E-11
MACH	-1224691E-03	-7071131E-04	-3475819E-04	-3448816E-04	-2706558E-02	-4113499E-02	-1224656E-03	-4837775E-03

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)	X(8)
X(1)	2590881E+02	2496488E+05	3888858E+07	3537192E+08	6739001E+06	1612346E+02	1166282E+11	7287811E+04
X(2)	1556331E+04	5024608E+06	2826743E+10	1467644E+11	5103202E+08	6397790E+04	2321775E+13	6718867E+07
OC	3266539E+02	1805491E+06	1030141E+10	2712884E+10	3671897E+07	2031626E+04	1264664E+13	2236860E+07
X(18)	2842768E+03	5912258E+05	1246370E+10	4925241E+10	5704999E+07	3209222E+04	1335540E+13	2800263E+07
X(16)	3835197E+01	6089276E+04	6103188E+06	8579785E+07	1177221E+06	6239728E+01	1902723E+10	1101281E+04
X(16)	1215674E+02	9071897E+04	1237754E+07	1318958E+08	1819265E+06	3476734E+02	4509800E+10	2134754E+04
X(26)	3623262E+02	6829423E+06	6264727E+07	3240699E+08	9537315E+08	2733531E+05	1725601E+11	7942732E+04
X(10)	2525837E+05	4588193E+07	6405095E+08	7052198E+10	1627194E+09	2356246E+06	7511333E+12	1633340E+07
X(8)	1191388E+01	2024818E+03	3398584E+04	3275762E+06	8683191E+04	1065842E+02	3028548E+08	7700050E+02
X(27)	2024818E+03	2465092E+07	3494772E+08	1116647E+09	2208755E+09	7495033E+05	8511109E+11	4826862E+05
X(11)	3398584E+04	3494772E+08	1847026E+12	4845872E+12	1120207E+10	7149098E+05	2271706E+15	3214195E+09
X(23)	3275762E+06	1116647E+09	4845872E+12	2866334E+13	1152541E+11	1324775E+07	3749819E+15	9261663E+09
X(13)	6663191E+04	2208755E+09	1120207E+10	1152541E+11	1570980E+12	2530836E+08	2467048E+13	8787407E+06
X(28)	1065942E+02	7495033E+05	7149098E+05	1324775E+07	2530836E+08	7044514E+04	2047893E+10	1102769E+04
X(25)	3028548E+08	8511109E+11	2271706E+15	3749819E+15	2467048E+13	2047893E+10	5229347E+18	3557650E+12
X(20)	7700050E+02	4826862E+05	3314195E+09	9261663E+09	8787407E+06	1102769E+04	3557650E+12	7341363E+06
X(14)	2750800E+01	2288810E+04	1877658E+06	3309760E+07	2539990E+05	1519548E+02	9561155E+09	2532212E+03
X(30)	5278155E+05	6775621E+09	8972805E+10	5664113E+11	1929492E+12	3320928E+08	1982655E+14	1255201E+08
DT	3771287E+01	1949798E+08	1830384E+06	9881878E+07	7828711E+08	2011341E+05	7298451E+08	1247255E+04
X(15)	4089227E+05	9399838E+07	4929855E+10	8220464E+10	1635458E+10	5772263E+06	2099881E+13	1271722E+08
X(43)	1239448E+05	6405717E+08	1506546E+11	5252051E+11	8802123E+10	3356456E+07	1117813E+14	3834619E+08
X(21)	1360290E+07	4457351E+09	1269883E+13	2193838E+13	1022008E+11	7673697E+07	2822552E+16	2446770E+10
X(47)	1972633E+07	2065955E+11	2572142E+13	9021753E+13	2176455E+13	7885723E+08	1863746E+16	5027267E+10
X(31)	2960823E+06	2518025E+10	4574070E+11	2180728E+12	4495522E+12	8595334E+08	1185214E+15	7871782E+08
X(42)	3132093E+04	1535658E+08	8472636E+10	2321095E+11	4777699E+10	1423384E+07	8546163E+13	1953044E+08
X(46)	4263581E+06	5031334E+10	1499074E+13	4064358E+13	1094998E+13	3212861E+09	1516617E+16	2762365E+10
X(36)	6214788E+06	5032342E+09	1118173E+14	2304406E+14	8687774E+13	1407121E+10	1379760E+17	2392350E+11
MACH	3783952E-01	5702813E+03	4818273E+06	3494630E+08	5835619E+05	1446821E+02	5965447E+09	1115482E+04

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(1)	3587545E+02	8502612E+07	5436630E+03	2593199E+07	4717709E+06	6510045E+08	1250363E+09	4005044E+08
X(19)	1252797E+05	2029888E+09	1710460E+05	2783253E+08	4283791E+09	1757589E+11	5048544E+11	6278836E+09
OC	1275074E+04	4637487E+08	4088113E+04	3524717E+09	1140818E+05	9559585E+10	1489166E+11	2873224E+09
X(18)	2932471E+04	6371763E+08	9856285E+03	1676366E+09	1805678E+09	9368951E+10	2392850E+11	2928204E+08
X(16)	8885308E+02	2468813E+07	7850567E+02	7165738E+04	1779110E+06	1067961E+08	4252897E+08	8987339E+07
X(16)	1292310E+05	3019824E+07	1583950E+03	6849105E+06	1999691E+06	2388739E+08	4751344E+08	1451722E+08
X(26)	6211918E+03	2278721E+08	7886419E+05	2909190E+07	2334446E+08	9104666E+08	6216882E+10	6832171E+09
X(10)	5988374E+05	1232715E+10	1148277E+06	9104736E+09	3148750E+09	3362159E+11	5278641E+11	6575873E+10
X(8)	2750800E+01	5278155E+05	3771287E+01	4062227E+05	1239449E+05	1260290E+07	1972633E+07	2960823E+06
X(27)	2288810E+04	6775621E+09	1949798E+04	9395838E+07	6605717E+08	4457351E+09	2065955E+11	2518025E+10
X(11)	1877659E+06	8972805E+10	1830384E+06	4929855E+10	1506546E+11	1289683E+13	2572142E+13	4574070E+11
X(23)	3309760E+07	5664113E+11	9881878E+07	8220464E+10	5252051E+11	2193838E+13	9021753E+13	2180728E+12
X(13)	2539990E+05	1929492E+12	7828711E+08	1635458E+10	8902123E+10	1022008E+11	2176455E+13	4495522E+12
X(28)	1519548E+02	3320928E+08	2011341E+05	5772263E+06	3356458E+07	7873697E+07	7885723E+08	8595334E+08
X(25)	9561155E+09	1982655E+14	7298451E+08	2099881E+13	1117813E+14	2822552E+16	1863746E+16	1185214E+15
X(20)	2532212E+03	1255201E+08	1267255E+04	1271722E+08	3836819E+08	2446770E+10	5027267E+10	7871782E+08
X(14)	3219542E+02	8775140E+06	1861254E+02	1680767E+04	7618513E+05	4812547E+07	1659512E+08	3384319E+07
X(30)	8775140E+06	3659539E+12	8703430E+06	4378608E+10	2258749E+11	1145494E+12	5906291E+13	1022895E+13
DT	1861254E+02	9703430E+08	6235743E+05	1135665E+07	8251424E+07	1998083E+07	2044837E+10	2298351E+09
X(15)	1680767E+06	4378608E+10	1135665E+07	612532E+10	4855935E+09	1398400E+11	1892875E+11	1615675E+11
X(43)	7618513E+05	2258749E+11	8251424E+07	4855935E+09	4305757E+11	9477183E+11	8191575E+13	6071001E+11
X(21)	4913547E+07	1145494E+12	1998083E+07	1398400E+11	9477183E+11	1812443E+14	1143453E+14	6520810E+12
X(47)	1659512E+08	5906291E+13	2044837E+10	1893975E+11	6191575E+13	1143453E+14	1141174E+16	1844587E+14
X(31)	3394319E+07	1022895E+13	2298351E+09	1615675E+11	6071001E+11	6520810E+12	1844587E+14	3449903E+13
X(42)	2049188E+05	8894798E+10	4008798E+07	2767700E+09	1520378E+11	8298039E+11	2201056E+13	1584479E+11
X(46)	4451932E+07	2197656E+13	9256147E+09	2538335E+11	2231552E+13	8748408E+13	4053330E+15	4924512E+13
X(36)	1720714E+08	1867273E+13	4339578E+10	4782804E+12	8278673E+13	9232574E+14	1178666E+16	768887E+12
MACH	8815947E+01	1887999E+06	4281239E+02	1194781E+06	4584462E+05	4239974E+07	3705056E+07	8259138E+06

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)	MACH
X(7)	-1822888E+05	-1253346E+08	-3257589E+09	-1234691E+03
X(19)	-1792841E+09	-2383332E+11	-1729178E+12	-7011131E+04
DC	-5883430E+08	-8465464E+10	-7468366E+11	-2475619E+04
X(18)	-8542811E+04	-1208599E+11	-8499428E+11	-3448816E+04
X(6)	-4896434E+05	-1198825E+08	-5745215E+08	-2706558E+02
X(14)	-1737513E+05	-5352296E+07	-1080020E+09	-4113499E+02
X(24)	-8744867E+07	-2104688E+10	-3179354E+10	-1224656E+03
X(10)	-9254017E+08	-1404750E+11	-2327013E+11	-4937775E+03
X(8)	-3132093E+04	-4263581E+06	-6214788E+06	-3783952E+01
X(27)	-1535658E+08	-5031334E+10	-5032342E+09	-5702813E+03
X(11)	-8472636E+10	-1499074E+13	-1118173E+14	-4816273E+06
X(23)	-2321085E+11	-4064358E+13	-2304406E+14	-3486630E+05
X(13)	-4777698E+10	-1094996E+13	-8697774E+13	-5835619E+05
X(28)	-1423384E+07	-3212661E+09	-1407121E+10	-1446821E+02
X(25)	-8546163E+13	-1516617E+16	-1376740E+17	-5965447E+09
X(20)	-1953044E+08	-2762385E+10	-2392350E+11	-1115462E+04
X(14)	-2049168E+05	-4451932E+07	-1720714E+08	-8815847E+01
X(30)	-8894766E+10	-2197656E+13	-8167273E+13	-1887999E+06
DT	-4008798E+07	-9254347E+09	-4339578E+10	-4281239E+02
X(15)	-2767700E+08	-2538335E+11	-4782804E+12	-1194787E+06
X(43)	-1520378E+11	-2231552E+13	-8278873E+13	-4584462E+05
X(21)	-8288029E+11	-9748408E+13	-9232574E+14	-4339874E+07
X(47)	-2201054E+13	-4053302E+15	-1178666E+16	-3705056E+07
X(31)	-1584478E+11	-4924612E+13	-9768867E+13	-9359138E+06
X(42)	-6184006E+10	-9259635E+12	-3896890E+13	-2632240E+05
X(46)	-9259635E+12	-1696940E+15	-5859345E+15	-3135273E+07
X(36)	-3896890E+13	-5859345E+15	-4144584E+16	-3913104E+08
MACH	-2632240E+05	-3135273E+07	-3913104E+08	-4880598E+01

INVERSE OF THE COVARIATES
CROSS PRODUCT MATRIX
FOR TOTAL

FRIDAY, JUL 2, 1976

	X(7)	X(18)	DC	X(18)	X(6)	X(18)	X(26)	X(10)
X(7)	-1805690E+00	-1279419E+05	-5925235E+03	-2750268E+04	-1942312E+00	-4842312E+00	-1440138E+04	-5546244E+04
X(19)	-1279419E+05	-2585973E+06	-9854195E+07	-5194270E+06	-4290104E+04	-1736215E+06	-4571174E+07	-4025170E+08
DC	-5925235E+03	-9854195E+07	-1012270E+03	-3284381E+05	-9627741E+04	-1688369E+02	-3208796E+05	-7436685E+06
X(8)	-2750268E+04	-5194270E+06	-3284381E+05	-2605884E+05	-2644107E+03	-8310428E+05	-1505982E+05	-1002404E+07
X(6)	-1942312E+00	-4290104E+04	-9627741E+04	-2644107E+03	-1803879E+01	-6585945E+00	-1451508E+03	-4658692E+04
X(16)	-4842312E+00	-1736215E+06	-1688369E+02	-8310428E+05	-6585945E+00	-1328362E+01	-1432170E+03	-1399136E+03
X(26)	-1440138E+04	-4571174E+07	-3208796E+05	-1505982E+05	-1451508E+03	-1432170E+03	-2490385E+03	-2602809E+07
X(10)	-5546244E+04	-4025170E+08	-7436685E+06	-1002404E+07	-4882892E+04	-1399136E+03	-2602809E+07	-3894253E+07
X(8)	-2750268E+04	-5194270E+06	-3284381E+05	-2605884E+05	-2644107E+03	-8310428E+05	-1505982E+05	-1002404E+07
X(27)	-1413863E+04	-2885961E+07	-7849810E+08	-3357275E+06	-3273489E+05	-1505982E+04	-1350843E+04	-6716470E+08
X(11)	-9519618E+07	-3854478E+08	-3207169E+07	-8200140E+09	-1735258E+06	-4099582E+07	-6189556E+08	-2426743E+09
X(23)	-2432146E+07	-8087383E+08	-5003528E+08	-4026358E+09	-6895661E+07	-2291904E+07	-1509494E+08	-1510686E+10
X(13)	-8345605E+07	-8068999E+10	-4102250E+09	-4016236E+09	-5416500E+06	-4999505E+08	-1174147E+06	-1022385E+11
X(28)	-2082866E+02	-7468773E+06	-8283262E+05	-1945898E+05	-5805108E+02	-1755696E+02	-7778316E+04	-4218987E+06
X(25)	-1362072E+10	-7044569E+12	-1134631E+10	-2238820E+12	-2312311E+09	-7497598E+11	-1349461E+11	-1528189E+12
X(20)	-1649435E+02	-1316328E+05	-2543258E+03	-4884622E+05	-5086029E+03	-4550925E+02	-2862484E+05	-2023300E+05
X(14)	-5678594E+00	-8307761E+04	-1700244E+03	-3643210E+03	-5389496E+01	-2001114E+01	-1107184E+02	-1380910E+03
X(30)	-1558744E+06	-3328702E+10	-1374925E+08	-2986680E+07	-8881411E+06	-5131748E+07	-2013776E+06	-2573941E+11
DT	-7822594E+04	-9088283E+07	-2199488E+05	-6153305E+06	-1809807E+02	-4940535E+03	-1688583E+03	-1286001E+06
X(15)	-1721661E+04	-3432308E+08	-8161982E+07	-5464424E+08	-3636145E+04	-4108211E+04	-5593914E+08	-9322185E+08
X(43)	-1774838E+06	-3730946E+08	-1122072E+07	-5312631E+08	-9649162E+07	-5276380E+07	-4715036E+07	-7964529E+10
X(21)	-7114305E+07	-1016373E+09	-1191559E+07	-8557122E+10	-1261640E+07	-1846019E+06	-6211459E+11	-7768946E+10
X(47)	-7261903E+09	-1642856E+10	-7742801E+10	-3209327E+11	-1480189E+09	-3290999E+08	-5916018E+09	-5343479E+12
X(31)	-4249646E+07	-5437438E+11	-4033966E+08	-1182452E+09	-2004168E+06	-1469162E+07	-4272260E+07	-4480989E+12
X(42)	-6186074E+06	-1119125E+07	-2988046E+07	-2404051E+07	-8842105E+06	-1421895E+05	-4950622E+07	-2090179E+09
X(46)	-1193123E+08	-4147775E+10	-2435943E+09	-8252884E+11	-2354807E+08	-6036781E+08	-1573735E+08	-1220282E+11
X(36)	-1732726E+06	-1439430E+11	-1224284E+10	-1083722E+10	-5927904E+09	-3139213E+09	-9924644E+10	-2632877E+13

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)
X(1)	9284808E-00	1412863E-04	9519618E-07	2432146E-07	8345605E-07	2083866E-03	1362072E-10
X(2)	1292375E-03	2695961E-07	3654478E-08	8097383E-09	8068998E-10	1746873E-08	7044569E-12
DC	1888038E-01	7949810E-06	3307169E-07	5003529E-08	4102250E-09	8283262E-05	1134631E-10
X(18)	5260747E-03	3357775E-06	8200140E-09	4026358E-09	6016216E-09	1945898E-05	2238820E-12
X(5)	3740625E-01	3273489E-05	3735258E-06	6695661E-07	5416500E-06	5605108E-02	2312311E-09
X(16)	2128613E-01	1509588E-04	4098592E-07	2291904E-07	4999505E-08	1755698E-02	7487598E-11
X(26)	1443228E-02	5350643E-04	6188556E-08	1509494E-08	1174147E-04	7778216E-04	1349461E-11
X(10)	8960383E-03	6715670E-08	2426763E-09	1510686E-10	1022385E-11	4218987E-06	1528188E-12
X(8)	2854453E-02	4087678E-03	1026563E-05	2587377E-06	250281E-07	1393630E-01	5723193E-09
X(27)	4087678E-03	1435453E-04	1610525E-08	8062864E-09	1764175E-07	2665892E-04	8708255E-12
X(11)	1026563E-05	1610525E-08	2072483E-09	2674574E-10	3778356E-12	2513857E-08	7121687E-13
X(23)	2587377E-06	6062864E-09	2674574E-10	6453521E-11	8682083E-13	1438484E-08	5439447E-14
X(13)	2502341E-07	1764175E-07	3778356E-12	9682083E-13	1260855E-09	3832140E-08	3205898E-15
X(28)	3293630E-01	2665892E-04	2513857E-08	1438484E-08	3832140E-08	2614244E-02	8951003E-12
X(25)	5723193E-09	6709255E-12	7121687E-13	5439447E-14	3205898E-15	8951003E-12	4424045E-16
X(20)	4872420E-01	7752917E-06	5188294E-08	2604800E-08	1113300E-08	1204390E-04	1960084E-11
X(14)	1151439E-02	1804852E-03	8083692E-06	1129984E-06	4474167E-07	1714163E-01	6367017E-09
X(30)	1825134E-06	4241289E-07	7078281E-12	3798337E-13	1352808E-09	1567088E-08	1037246E-14
DT	4753320E-07	3018900E-04	6227083E-09	3597066E-09	1116777E-06	848684E-03	2182253E-12
X(15)	2238427E-03	5535146E-08	2181802E-10	3098412E-11	1286904E-11	3393245E-06	1418820E-13
X(43)	1577757E-05	2160898E-07	6211352E-10	1493763E-10	1422788E-10	5151298E-07	1344959E-13
X(21)	2204124E-05	5415094E-10	1065452E-10	8346621E-12	2380517E-14	2172726E-08	6630211E-14
X(47)	6853825E-08	2262378E-09	4275154E-12	1004151E-12	2306488E-14	1722405E-10	7964754E-16
X(31)	8654252E-07	1125484E-07	2339062E-12	5345525E-13	2055479E-10	3582350E-08	3369256E-15
X(42)	2716825E-05	3260007E-07	2228480E-09	3612872E-10	7454160E-10	3302090E-07	3081990E-13
X(46)	2036810E-07	8643495E-09	1560272E-11	2549386E-12	6085509E-14	183654E-09	1482772E-15
X(38)	1150451E-09	2331979E-10	7408234E-14	1543652E-14	6791791E-13	3872952E-11	4772593E-17

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(1)	5678594E+00	1558744E-06	7822584E-04	1721661E-04	1776838E-06	7114305E-07	7261903E-09	4269846E-07
X(19)	6207761E-04	3228702E-10	9082263E-07	3422308E-09	3730946E-08	1016373E-09	1642856E-10	5427438E-11
DC	1700244E-03	1374935E-08	2199488E-05	8161982E-07	1122072E-07	1191559E-07	7742801E-10	4023986E-09
X(18)	3842210E-02	2895880E-09	8153205E-09	5464424E-08	5312621E-08	8957122E-10	3209327E-11	1182452E-08
X(6)	5394966E-01	888141E-06	180987E-02	3436145E-04	988163E-07	9281840E-07	1480189E-09	2004188E-06
X(16)	2001114E-01	5131746E-07	4840535E-03	4108211E-04	5276380E-06	1846019E-06	3290999E-08	1669182E-07
X(26)	1107184E-02	2013776E-06	1668583E-03	5593914E-08	4715036E-07	6211458E-11	5816018E-08	4272260E-07
X(10)	1280910E-02	2573941E-11	1284601E-06	8222185E-08	7864528E-10	7768946E-10	5343479E-12	4480889E-12
X(8)	1151439E-02	1625134E-06	4753320E-02	2238427E-03	1577757E-05	2204124E-05	6853825E-08	8654252E-07
X(27)	1804652E-03	4241289E-07	3016900E-04	5553514E-09	2160898E-07	5415094E-10	2262378E-09	1125484E-07
X(11)	8083692E-06	7078281E-12	6227083E-09	2181802E-10	6211352E-10	1065452E-10	4275154E-12	2339062E-12
X(23)	1129984E-06	3798337E-13	3597066E-09	3098412E-11	1493763E-10	8346621E-12	1004151E-12	5345525E-13
X(13)	4474167E-07	1352808E-09	1114777E-06	1286904E-11	1422788E-10	2380517E-14	2306488E-14	2055479E-10
X(28)	1714163E-01	1567088E-08	848684E-03	3393245E-06	5151298E-07	2172726E-08	1722405E-10	3582350E-08
X(25)	6367017E-09	1037246E-14	2182253E-12	1418820E-13	1344959E-13	8430211E-14	7964754E-16	3369256E-15
X(20)	1952090E-02	2932178E-08	3226307E-05	1846812E-06	1055830E-07	2702271E-07	3451874E-10	7364643E-09
X(14)	1447749E-02	2242874E-06	5032009E-02	1060038E-03	3164467E-04	2558392E-06	5877892E-09	7405345E-07
X(30)	2243974E-06	2238888E-09	1235738E-06	9510432E-11	6838102E-11	2058821E-14	6790535E-13	4773507E-10
DT	5032009E-02	1235738E-06	4017511E-03	1039312E-04	2348072E-07	6355352E-09	1491133E-10	1776675E-07
X(15)	1060038E-03	9510432E-11	1039312E-04	4087075E-08	2042086E-10	1556811E-10	5601059E-13	2249716E-11
X(43)	3164467E-04	5939102E-11	2348072E-07	2042086E-10	1232599E-08	1705946E-11	6780015E-11	2582517E-11
X(21)	2559392E-06	2059821E-14	6355352E-09	1556811E-10	1705946E-11	2268298E-11	1073850E-13	1116615E-13
X(47)	5877892E-09	6790535E-13	1491133E-10	5601059E-13	6780015E-11	1073850E-13	4791219E-13	3228244E-13
X(31)	7405345E-07	4773507E-10	1776675E-07	2249716E-11	2582517E-11	1116615E-13	3228244E-13	1279718E-10
X(42)	6700192E-06	597928E-11	2215442E-07	8980075E-10	3434503E-08	366645E-11	1789526E-10	4103278E-11
X(46)	682488E-09	8851525E-13	1988982E-10	2273242E-12	1808529E-10	2320057E-13	1244938E-12	5377682E-13
X(38)	1907301E-09	2773530E-13	1708882E-11	1960985E-13	1885821E-12	2866227E-15	2718605E-15	1275584E-13

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)
X(7)	-6136074E-06	-1193123E-08	-1732726E-09
X(19)	-1119125E-07	-4147775E-10	-1439430E-11
DC	-2998046E-07	-2435943E-09	-1224284E-10
X(18)	-2404051E-07	-8352884E-11	-1063728E-10
X(6)	-8842105E-06	-2254807E-08	-5927904E-09
X(16)	-1421855E-05	-6036781E-08	-3139213E-09
X(28)	-4950622E-07	-1373735E-09	-9924844E-10
X(10)	-2090179E-09	-1220242E-11	-2832877E-13
X(8)	-2716825E-05	-2036810E-07	-1150451E-09
X(27)	-3260007E-07	-5643495E-09	-2331979E-10
X(11)	-2228490E-09	-1560272E-11	-7408234E-14
X(23)	-3613872E-10	-2549386E-12	-1543652E-14
X(13)	-7454160E-10	-6085509E-14	-6791791E-13
X(28)	-3202090E-07	-1835654E-09	-3872952E-11
X(25)	-3081990E-13	-1482772E-15	-4772593E-17
X(20)	-2560214E-07	-2507077E-10	-5645417E-11
X(14)	-6700193E-06	-6682488E-08	-1307301E-09
X(30)	-8387926E-11	-9851625E-12	-2773520E-13
DT	-2215442E-07	-1985992E-10	-1704882E-11
X(15)	-8248073E-10	-2273242E-12	-1860985E-13
X(43)	-3434503E-08	-1805828E-10	-1885821E-12
X(21)	-3466645E-11	-2320057E-13	-2866227E-15
X(47)	-1789528E-10	-1244938E-12	-2718605E-15
X(31)	-4103278E-11	-5377682E-13	-1275584E-13
X(42)	-1102816E-07	-5377054E-10	-1185524E-11
X(46)	-5377054E-10	-3655458E-12	-6275740E-15
X(36)	-1185524E-11	-6275740E-15	-1172471E-14

INVERSE OF THE COVARIATES
CROSS-PRODUCT MATRIX
FOR TREATMENT.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-4959632E-12	-9370779E-10	-6751082E-10	-4308199E-11	-3702278E-12	-6963063E-12	-2264707E-11	-5631567E-09
X(19)	-3233487E-09	-8661509E-07	-1566525E-08	-4402842E-09	-5107531E-09	-1141160E-10	-2198030E-08	-4033542E-06
DC	-6810264E-10	-1210449E-09	-1186030E-09	-5600272E-09	-5681285E-10	-7824260E-10	-2540004E-09	-7816538E-07
X(18)	-1254264E-11	-2390401E-09	-1668691E-09	-1097145E-10	-8497492E-10	-1801009E-11	-9199537E-09	-1499847E-08
X(6)	-5878872E-12	-1169100E-11	-9555249E-10	-5378949E-11	-4645040E-12	-8964981E-12	-2892434E-11	-6901851E-09
X(16)	-2529721E-12	-4843509E-11	-3907859E-11	-2248019E-12	-1801771E-12	-3777301E-12	-1293665E-12	-3002356E-10
X(26)	-7710460E-11	-1474598E-10	-1108272E-10	-4788124E-10	-5328809E-11	-1112331E-12	-3562238E-10	-9138234E-08
X(10)	-3594548E-09	-1082682E-08	-8445522E-07	-5044428E-08	-4201482E-09	-8307636E-09	-2457247E-08	-7191077E-06
X(8)	-1336406E-12	-2542144E-11	-2890783E-11	-1278382E-12	-1068475E-12	-2118980E-12	-5280607E-11	-1704932E-10
X(27)	-1589750E-11	-3171459E-09	-2183715E-09	-1423343E-10	-1103599E-11	-2344621E-11	-8267661E-09	-1967492E-08
X(11)	-3672904E-08	-7140526E-06	-6315862E-06	-2281986E-07	-3057918E-08	-4946337E-08	-1580286E-07	-4639049E-05
X(23)	-6028660E-08	-1163715E-07	-9316048E-06	-5420859E-07	-4531525E-08	-9098721E-08	-2961091E-07	-7216719E-05
X(13)	-1036238E-08	-2173259E-06	-2375033E-06	-1046640E-07	-7889641E-07	-1802844E-08	-6409505E-06	-1849801E-05
X(28)	-8738641E-10	-3481228E-08	-1439991E-09	-4691823E-09	-1070780E-11	-7058914E-10	-2341034E-09	-5464351E-07
X(25)	-4759805E-05	-8770111E-03	-583231E-03	-2834082E-04	-3788460E-05	-5581141E-05	-1974241E-04	-5403432E-02
X(20)	-4267939E-11	-6349143E-09	-5894187E-09	-2851892E-10	-3052838E-11	-6216007E-11	-2283720E-10	-5342576E-08
X(14)	-3340232E-13	-6288123E-11	-5120345E-11	-3006918E-12	-2468013E-13	-4835641E-13	-1584406E-12	-3827845E-10
X(30)	-1626785E-08	-3178984E-06	-3074939E-06	-1575379E-07	-1175718E-08	-2618405E-08	-7666281E-06	-1966577E-05
DT	-1947044E-11	-3688681E-09	-3793311E-09	-1830013E-10	-1522503E-11	-2918127E-11	-6537569E-09	-2228063E-08
X(15)	-2389900E-09	-4421717E-07	-2470824E-07	-2164803E-08	-1620521E-09	-3664234E-09	-1252011E-08	-2880767E-06
X(43)	-8272217E-09	-1600561E-08	-1196221E-08	-7361415E-08	-6066439E-09	-1208814E-10	-3825663E-08	-9788237E-06
X(21)	-6965436E-07	-1242574E-06	-8442481E-05	-5502748E-08	-5446783E-07	-8655013E-07	-2587335E-06	-7671997E-04
X(47)	-4138924E-06	-8037883E-04	-7445426E-04	-3494618E-05	-3788678E-06	-2907561E-06	-1865659E-05	-4189254E-03
X(31)	-1844810E-08	-3142828E-05	-2249955E-05	-1445245E-07	-1184542E-08	-2331717E-08	-7686120E-06	-1553393E-05
X(42)	-8671325E-09	-1573780E-09	-1302039E-08	-7338182E-09	-5525694E-09	-1259853E-10	-4115620E-08	-9998532E-06
X(46)	-8211904E-06	-1531389E-05	-1416787E-05	-7395897E-05	-5545546E-06	-1577289E-07	-2842601E-05	-7893167E-03
X(36)	-4738797E-06	-9222122E-04	-7962371E-04	-4514209E-05	-3246098E-06	-8018888E-06	-2425874E-05	-6092046E-03

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(8)	X(27)	X(11)	X(23)	X(12)	X(28)	X(25)	X(20)
X(7)	-2002429E-13	-2985424E-11	-1604164E-08	-3095175E-08	-2433457E-08	-1699160E-12	-9182862E-05	-8545120E-11
X(19)	-1821607E-10	-2213257E-08	-1891604E-05	-3817185E-05	-5374760E-05	-1601820E-09	-9341883E-02	-4916325E-08
DC	-2628865E-11	-4004610E-09	-1071312E-06	-1822814E-06	-2877076E-06	-2088512E-10	-1285204E-04	-8340414E-08
X(11)	-4984535E-11	-7873718E-09	-2100113E-06	-8122200E-05	-5644322E-06	-4244826E-10	-2435694E-04	-1870161E-10
X(6)	-2392346E-13	-3740983E-11	-1254688E-08	-3718634E-08	-2881304E-08	-2089535E-12	-1139113E-06	-7236160E-11
X(16)	-1043065E-14	-1570782E-12	-632655E-08	-1643470E-08	-1223864E-09	-8786968E-12	-4861678E-06	-3258642E-12
X(26)	-3195328E-12	-4751206E-10	-2301594E-07	-4673812E-07	-3680420E-07	-2672850E-11	-1464757E-05	-9852710E-10
X(10)	-2240251E-10	-3536819E-08	-7232564E-04	-3589590E-05	-2373448E-05	-1931437E-09	-1110278E-03	-7488848E-08
X(8)	-5027894E-13	-8193075E-11	-2244861E-08	-8164712E-08	-8654627E-08	-4680822E-12	-2528315E-06	-1784540E-12
X(27)	-7024868E-11	-9823960E-09	-6522230E-06	-1030385E-07	-7992607E-06	-5736637E-10	-3044832E-04	-2018099E-10
X(11)	-1375020E-09	-2356519E-07	-6511283E-03	-2358988E-04	-1929409E-04	-1288986E-08	-7054727E-01	-5145190E-07
X(23)	-2477215E-09	-3792075E-07	-1585652E-04	-3818430E-04	-2819520E-04	-2118451E-08	-1152128E-02	-7821382E-07
X(13)	-4787717E-08	-8475109E-06	-3422586E-03	-7184687E-03	-9053065E-02	-3803917E-07	-2401332E-01	-1381031E-07
X(28)	-2106465E-11	-4681189E-08	-9484811E-06	-3510108E-06	-8482827E-06	-2152937E-09	-3262159E-03	-1627418E-10
X(25)	-1958968E-06	-2746507E-04	-1413019E-01	-2857405E-01	-1955822E-01	-1545706E-05	-8885133E-02	-5984887E-04
X(20)	-1808702E-12	-2794835E-10	-9852885E-06	-2863886E-07	-1646151E-07	-1574160E-11	-8260205E-04	-5439106E-10
X(14)	-1363670E-14	-2096944E-12	-7084237E-08	-2124762E-08	-1811290E-09	-1179074E-13	-6384312E-06	-4295406E-12
X(30)	-6592800E-08	-1037752E-07	-3873330E-03	-1079447E-04	-9394905E-03	-6040153E-07	-3140288E-01	-2218608E-07
DT	-8139215E-11	-1286988E-10	-2633659E-06	-1263487E-07	-9080583E-06	-7277231E-10	-3830618E-04	-2385052E-10
X(15)	-9503545E-09	-1552262E-08	-5390749E-04	-1625809E-05	-1117924E-05	-8139804E-08	-6682228E-02	-3146478E-08
X(43)	-3473815E-10	-5137195E-08	-2320152E-05	-5307335E-05	-4022848E-05	-2842974E-09	-1568371E-03	-1070142E-09
X(21)	-2819293E-08	-3758671E-06	-2229726E-03	-3534356E-03	-3579572E-03	-2181379E-07	-1170279E-01	-9013204E-06
X(47)	-2024817E-07	-2625924E-05	-7752519E-01	-2457844E-02	-1824671E-02	-1322935E-06	-8207804E-01	-4373812E-05
X(31)	-8706775E-08	-9488213E-06	-6088016E-03	-1031783E-04	-889537E-03	-5432213E-07	-3047307E-01	-2182684E-07
X(42)	-3291585E-10	-5181062E-08	-2283862E-05	-5420093E-05	-4120880E-05	-2889800E-09	-1561803E-03	-1029388E-09
X(46)	-2757831E-07	-4632135E-05	-3217297E-02	-5726956E-02	-6021727E-02	-2873522E-06	-1341988E-00	-1108135E-06
X(38)	-1728764E-07	-3123162E-05	-1580183E-02	-3107857E-02	-2586751E-02	-1675140E-06	-8394191E-01	-6512106E-05

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	-6502847E-13	-2087522E-08	-1803829E-11	-9837842E-08	-4053744E-09	-2583490E-08	-2886618E-07	-1889399E-08
X(19)	-6145113E-10	-6047135E-05	-1054406E-02	-2320879E-06	-1437158E-06	-1885128E-05	-3220300E-04	-2175504E-05
DC	-8782033E-11	-3747812E-06	-2077039E-03	-5635402E-06	-5379410E-07	-3631051E-06	-3542603E-05	-2370550E-06
X(18)	-1876045E-12	-7174972E-08	-4585847E-09	-2095643E-07	-9820027E-07	-6504138E-06	-6979427E-05	-4606007E-06
X(6)	-7960248E-13	-3771702E-08	-2213304E-11	-7795960E-08	-5005220E-09	-3210687E-08	-3445312E-07	-2282926E-08
X(16)	-3379558E-14	-1810293E-09	-9571738E-11	-4208593E-09	-2104192E-10	-1342688E-09	-1459289E-08	-9642154E-08
X(26)	-1021565E-13	-4803284E-07	-2894279E-10	-1324143E-08	-6577140E-08	-4080828E-07	-4328089E-06	-2965050E-07
X(10)	-7488878E-10	-3408996E-05	-2226178E-03	-6775566E-05	-4488568E-06	-3065858E-05	-3129466E-04	-1879748E-05
X(8)	-1838228E-14	-9857531E-08	-4549655E-11	-2211176E-03	-1128306E-10	-7332469E-08	-7783380E-07	-5110387E-08
X(27)	-2134490E-13	-1008689E-07	-6163084E-09	-2681408E-07	-1359106E-08	-8517514E-06	-937791E-05	-6243403E-06
X(11)	-5149391E-09	-2258855E-04	-1178187E-07	-8603082E-04	-2944957E-05	-1924899E-04	-2142659E-03	-1423288E-04
X(23)	-8115536E-09	-3758600E-04	-2283785E-07	-8742444E-04	-5074717E-05	-3247963E-04	-3462651E-03	-2308180E-04
X(12)	-1559883E-09	-6449872E-03	-4811054E-06	-2547926E-02	-8403202E-04	-5697970E-03	-6781122E-02	-4007989E-03
X(28)	-9166142E-11	-5312941E-06	-2354653E-09	-5430648E-07	-1182194E-07	-2440103E-06	-2989902E-05	-5745602E-06
X(25)	-6106520E-06	-2650675E-01	-1683353E-04	-8747381E-01	-3826960E-02	-2376744E-01	-2402261E-00	-1850546E-01
X(20)	-5856180E-12	-2413028E-07	-1751467E-10	-6348575E-07	-3730835E-08	-2342879E-07	-2396830E-06	-1811929E-07
X(14)	-4512225E-14	-2060915E-09	-1284099E-12	-4803689E-09	-2852888E-10	-1775136E-09	-1908386E-08	-1248835E-09
X(30)	-2301216E-09	-1225774E-04	-6305053E-06	-2857134E-04	-1466983E-05	-9176416E-03	-1022491E-03	-6727839E-03
DT	-2458334E-12	-1220899E-07	-7303334E-09	-1307471E-07	-1800861E-08	-1116171E-07	-1125523E-06	-7092904E-06
X(15)	-3175497E-10	-1559520E-05	-8812764E-07	-3758215E-05	-1848872E-06	-1318882E-05	-1379402E-04	-9322288E-04
X(43)	-1101096E-11	-5122120E-05	-3026504E-08	-1356727E-06	-6925099E-06	-4270457E-05	-4735884E-04	-3178449E-05
X(21)	-8458958E-08	-3863444E-03	-2143172E-06	-1539535E-04	-5440952E-04	-3291773E-03	-3422337E-02	-2370583E-03
X(47)	-5613347E-07	-1547901E-02	-1724113E-05	-1509592E-02	-3645630E-03	-2196288E-02	-2154914E-01	-1071703E-02
X(31)	-2184497E-09	-1099046E-04	-5340690E-06	-3725327E-04	-1354524E-05	-8501428E-03	-9478522E-02	-6835144E-03
X(42)	-1100302E-11	-5357327E-05	-3408469E-08	-1262052E-06	-6814384E-08	-4282133E-05	-4762279E-04	-3124193E-05
X(46)	-1092844E-08	-7380118E-02	-1974844E-05	-2011320E-03	-6425524E-03	-4411892E-02	-4919126E-01	-3183488E-02
X(38)	-6579870E-07	-3164880E-02	-1918320E-05	-9727022E-02	-4089692E-03	-2608725E-02	-2897619E-01	-1916616E-02

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(42)	X(48)	X(36)
X(7)	.5202584E+08	.1322611E+07	.3432976E+04
X(19)	.1808255E+05	.2090071E+04	.2482850E+03
DC	.7058588E+07	.1590024E+05	.4055170E+04
X(18)	.1449920E+08	.2936289E+05	.8907876E+04
X(6)	.6646670E+09	.1528331E+07	.4534332E+06
X(16)	.2738679E+10	.6384681E+07	.2007430E+07
X(26)	.8486161E+08	.2012106E+06	.6129098E+05
X(10)	.6201814E+06	.1304492E+04	.3508419E+03
X(8)	.1110012E+10	.4592295E+07	.5892784E+06
X(27)	.1817646E+08	.4142538E+05	.1533584E+05
X(11)	.3523132E+05	.1080656E+03	.2519778E+02
X(23)	.6737077E+05	.1486793E+03	.4723610E+02
X(13)	.1531680E+05	.1629186E+02	.9853841E+01
X(28)	.3457900E+07	.3218072E+05	.9740409E+04
X(25)	.5172614E+02	.9999324E+01	.3307956E+01
X(20)	.5278559E+08	.9876506E+05	.3514316E+05
X(14)	.3661068E+10	.8525088E+07	.2469462E+07
X(30)	.1733716E+05	.4037576E+02	.1110507E+02
DT	.2555582E+08	.5860480E+05	.1488621E+05
X(15)	.2708934E+06	.8250042E+03	.1653857E+03
X(43)	.8085275E+06	.2071217E+04	.6570005E+03
X(21)	.6555778E+04	.1796493E+02	.4481834E+01
X(47)	.3576205E+03	.7558886E+00	.1977167E+00
X(31)	.1563852E+05	.4639033E+02	.1286507E+02
X(42)	.8225398E+06	.2115641E+04	.6767175E+03
X(46)	.7045472E+03	.3169200E+01	.5457477E+00
X(36)	.5086152E+03	.1343408E+01	.3421887E+00

INVERSE OF THE COVARIATES
CROSS PRODUCT MATRIX
FOR ERROR.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.1805863E+00	.1239585E+05	.5827254E+03	.2751055E+04	.1941942E+00	.4842619E+00	.1688378E+04	.5546682E+04
X(19)	.1239585E+05	.2586893E+06	.9900797E+07	.5194088E+06	.4298429E+04	.2444298E+06	.5144130E+07	.4045289E+08
DC	.5827254E+03	.9900797E+07	.1012294E+03	.3284289E+05	.9670832E+04	.1688728E+02	.3237822E+05	.7437198E+06
X(18)	.2751055E+04	.5194088E+06	.3284289E+05	.2605887E+05	.2643829E+03	.8324424E+05	.1504850E+05	.1002204E+07
X(6)	.1941942E+00	.4298429E+04	.9670832E+04	.2643829E+03	.1804058E+01	.6585289E+00	.1504610E+02	.4659630E+04
X(16)	.4842619E+00	.2444298E+06	.1688728E+02	.8324424E+05	.6585289E+00	.1328418E+01	.1389060E+03	.1398214E+03
X(26)	.1688728E+04	.5144130E+07	.3237822E+05	.1504850E+05	.1504610E+02	.1389060E+03	.2492953E+03	.2665838E+07
X(10)	.5546682E+04	.4045289E+08	.7437198E+06	.1002204E+07	.4659630E+04	.1398214E+03	.2665838E+07	.3984368E+07
X(8)	.9286421E+00	.1296099E+03	.1888272E+01	.5260011E+03	.3740870E+01	.2129800E+01	.1466526E+02	.8960793E+03
X(27)	.1498853E+04	.2499798E+07	.7949188E+06	.3353398E+06	.1455433E+05	.1358588E+04	.5362862E+04	.6931454E+08
X(11)	.9572305E+07	.3655694E+08	.3306553E+07	.8202544E+06	.3723988E+06	.4005873E+07	.6092813E+08	.2428101E+09
X(23)	.2459315E+07	.8103654E+09	.5000352E+08	.4027598E+09	.6637542E+07	.2243827E+07	.1470436E+08	.1517504E+10
X(13)	.7885311E+07	.9593005E+10	.4874331E+09	.5986118E+09	.5557746E+06	.6733390E+08	.1164655E+08	.6540583E+12
X(28)	.2108838E+03	.1689242E+06	.8354065E+05	.1947037E+05	.5598767E+02	.1760133E+02	.7814213E+04	.4212647E+06
X(25)	.1362128E+10	.7044581E+12	.1134630E+10	.2238822E+12	.2312300E+09	.7496638E+11	.1349539E+11	.1528190E+12
X(20)	.1650180E+02	.1318046E+05	.2543345E+03	.4884282E+05	.5070985E+03	.4552249E+02	.2999636E+05	.2023489E+05
X(14)	.5677613E+00	.8235010E+04	.1886439E+03	.3442672E+03	.5389749E+01	.2000904E+01	.1124157E+02	.1381210E+03
X(30)	.1577080E+04	.3781819E+10	.1358376E+08	.2881314E+09	.8841817E+06	.4805822E+07	.2016412E+08	.2108932E+11
DT	.5718217E+04	.1394532E+06	.2445532E+05	.6057315E+06	.1855003E+02	.4566404E+02	.1638331E+03	.1339030E+06
X(15)	.1723088E+04	.3531054E+09	.8166885E+07	.5462472E+08	.3637080E+04	.4108871E+04	.6208870E+08	.9323271E+08
X(43)	.1760712E+06	.3734688E+08	.1120186E+07	.5311885E+08	.1031412E+06	.5247725E+06	.4691854E+07	.7823586E+10
X(21)	.7116914E+07	.1015771E+09	.1191590E+07	.8955932E+10	.9257221E+07	.1846482E+06	.2460818E+11	.7769608E+10
X(47)	.7160797E+09	.1644982E+10	.7722031E+10	.3205125E+11	.1657217E+09	.3274633E+08	.5902776E+09	.5320094E+12
X(31)	.4329683E+07	.7053960E+11	.4115881E+09	.1179257E+09	.1089186E+06	.1344711E+07	.4282329E+07	.2702776E+12
X(42)	.8105766E+06	.1119825E+07	.2994502E+07	.2403913E+07	.8996938E+06	.1416510E+05	.4907651E+07	.2082444E+09
X(46)	.1187470E+08	.4149080E+10	.2435282E+08	.8350306E+11	.2342713E+08	.6026735E+08	.1572923E+08	.1218827E+11
X(36)	.1714323E+09	.1443678E+11	.1228436E+10	.1063844E+10	.5967270E+09	.3106513E+08	.9951100E+10	.2586154E+13

NADC-77036-30

FRIDAY, JUL 2, 1976

	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)	X(8)
X(1)	9288421E-00	1498853E-04	9572305E-07	2459315E-07	7885311E-07	2108836E-03	1362126E-10	1650180E-02
X(2)	1284099E-03	2499798E-07	3655894E-08	8103654E-08	9593005E-10	1689242E-04	7044581E-12	1318048E-05
DC	1888227E-01	7649183E-06	3308553E-07	5000352E-08	4874331E-09	8354065E-05	1134630E-10	2543345E-03
X(18)	5260011E-03	3253388E-06	8202544E-09	4027588E-08	5986118E-09	1947037E-05	2238822E-12	4884282E-05
X(6)	3740870E+01	1455433E-05	3723988E-06	6637542E-07	5557746E-06	5599767E-02	2312200E-08	5070085E-02
X(16)	2129900E+01	1358568E-04	4005973E-07	2243627E-07	6733390E-08	1760133E-02	7496638E-11	4552249E-02
X(26)	1466526E-02	5362862E-04	6013813E-08	1470436E-08	1184655E-06	7814213E-04	1349538E-11	2989636E-05
X(10)	8960793E-03	6931454E-08	2428101E-09	1517584E-10	8540583E-12	4212847E-06	1528190E-12	2023489E-05
X(8)	2856643E-02	4167100E-03	1021639E-05	2541978E-06	3668037E-07	1395963E-01	5723142E-09	4973117E-01
X(27)	4167100E-03	1439636E-04	1584592E-08	5929140E-09	1731676E-07	2678182E-04	6709521E-12	8119773E-06
X(11)	1021639E-05	1584592E-08	2072844E-09	2875403E-10	1764685E-12	2580044E-08	7121889E-13	5184552E-08
X(22)	2541978E-06	5929140E-09	2875403E-10	6457796E-11	7070728E-14	1477772E-09	5439456E-14	2593073E-08
X(13)	3668037E-07	1731676E-07	1764685E-12	7070728E-14	1286104E-09	2877317E-08	3303831E-15	8282858E-09
X(28)	1395963E-01	2678182E-04	2580044E-08	1477772E-09	2877317E-08	2614605E-02	9950221E-12	1293612E-04
X(25)	5723142E-09	6709521E-12	7121889E-13	5439456E-14	3303831E-15	9950221E-12	4424345E-16	1960061E-11
X(20)	4973117E-01	8119773E-06	5166552E-08	2593073E-08	8282858E-09	1293612E-04	1960061E-11	8823555E-03
X(14)	1151550E-02	1862761E-02	9047669E-06	1111388E-06	8988714E-07	1712456E-01	6366981E-09	1948113E-02
X(30)	1453782E-06	4250325E-07	7637772E-12	9122572E-14	1345898E-09	1822243E-08	1037303E-14	3011327E-08
DT	4556667E-02	2913323E-04	1938085E-10	2860026E-10	1195247E-06	8435454E-03	2168840E-12	4134655E-05
X(15)	2238827E-03	3447747E-09	2168748E-10	3031056E-11	2822892E-11	2387159E-06	1488066E-13	1846759E-08
X(42)	1562688E-02	2152861E-07	6218273E-10	1484639E-10	1048452E-10	5702879E-07	1346154E-13	1946698E-07
X(17)	2204368E-05	5286687E-10	1085572E-10	8342516E-12	7595558E-14	2168854E-08	6630210E-14	2702393E-07
X(47)	6767753E-08	2357843E-08	4277864E-12	1005600E-12	5828547E-14	1855596E-10	7864725E-16	3412116E-10
X(31)	7999757E-07	1128931E-07	2552782E-12	4243541E-13	2028697E-10	3481072E-08	3369475E-15	7666958E-09
X(42)	2688502E-05	3245089E-07	2228404E-09	3618641E-10	7570056E-10	3258263E-07	3081800E-13	2547124E-07
X(46)	2031627E-07	5640712E-09	1560445E-11	2550285E-12	3923600E-14	1843299E-09	1482770E-15	2482673E-10
X(36)	9784788E-10	2341037E-10	7352083E-14	1514697E-14	6862162E-13	3606837E-11	4772535E-17	5665882E-11

FRIDAY, JUL 2, 1976

	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	5677413E-00	1577080E-04	5718217E-04	1722089E-04	1760712E-06	7116914E-07	7169797E-09	4339683E-07
X(19)	6335010E-04	3751919E-10	1294532E-06	2531054E-09	3734668E-08	1015771E-09	1644882E-10	7052980E-11
DC	1688439E-03	1286378E-08	2445533E-05	8166895E-07	1120186E-07	1181590E-07	7732031E-10	4115881E-09
X(18)	3642672E-03	2981316E-09	6057315E-06	5462472E-08	5311885E-08	8855932E-10	3205125E-11	1179257E-08
X(6)	5389748E+01	8841917E-06	1855003E-02	2837060E-04	1031412E-08	6267221E-07	1857217E-09	1889186E-08
X(16)	2008904E+01	4805922E-07	4546404E-05	6108971E-04	5247725E-06	1846482E-08	3274633E-08	1344711E-07
X(26)	1124157E-02	2018412E-06	1638331E-03	6208970E-08	4681854E-07	2460916E-11	5902776E-09	4282329E-07
X(10)	1381210E-03	2108392E-11	1338030E-04	8323271E-08	7923586E-10	7768608E-10	5320094E-12	2702776E-12
X(8)	1151550E-02	1453782E-06	4556667E-02	2238827E-03	1542488E-05	2204368E-05	6767753E-08	7666958E-09
X(27)	1862761E-02	4250325E-07	2913323E-04	3447747E-09	2152961E-07	6286687E-10	2357843E-08	1128931E-07
X(11)	9047669E-06	7637772E-12	1938085E-10	2168748E-10	6216273E-10	1045372E-10	4277964E-12	2552782E-12
X(22)	1111388E-06	9122572E-14	2860026E-10	3031056E-11	1484639E-10	8242516E-12	1005600E-12	4243541E-13
X(12)	8988714E-07	1245898E-09	1195247E-06	2922892E-11	1484452E-10	7595558E-14	5828547E-14	2028697E-10
X(28)	1712456E-01	1822243E-08	8435454E-03	3387159E-06	5127979E-07	2168954E-08	1855596E-10	3481072E-08
X(25)	6366981E-09	1037303E-14	2168840E-12	1418806E-13	1344954E-13	6630210E-14	7864725E-16	3369475E-15
X(20)	1948113E-02	2011327E-08	4134655E-05	1846759E-08	1048452E-10	2702879E-07	3412116E-10	7666958E-09
X(14)	1847930E-02	2118805E-06	5175889E-02	1040688E-05	3054209E-06	2561178E-04	6507637E-09	6926484E-07
X(30)	2118805E-06	2240835E-09	1213391E-06	8056117E-11	6767862E-11	7115428E-15	6627272E-13	4780945E-10
DT	5175889E-02	1213391E-06	4273971E-03	1091452E-06	2544597E-07	6673293E-09	2613625E-10	1681320E-07
X(15)	1060668E-03	5056117E-11	1091452E-06	4088135E-09	2002132E-10	1537457E-10	5372852E-13	2076186E-11
X(42)	3054208E-06	6767862E-11	2544597E-07	2002132E-10	1232750E-08	1708382E-11	6780875E-11	2517110E-11
X(21)	2561178E-06	7115428E-15	6673293E-09	1557457E-10	1708382E-11	2288338E-11	1075241E-13	1010799E-13
X(47)	6507637E-09	6692727E-12	2613625E-10	5372852E-13	6780875E-11	1075241E-13	4781711E-13	3180895E-13
X(31)	6926484E-07	4780945E-10	1691320E-07	2076186E-11	2517110E-11	1010799E-13	3180895E-13	1282559E-10
X(42)	6492971E-08	8115770E-11	2584806E-07	8172980E-10	3434788E-08	2471224E-11	1769687E-10	4226208E-11
X(46)	6845843E-08	8781489E-13	1296984E-10	2258234E-12	1805882E-10	2320911E-13	1244959E-12	5354761E-13
X(36)	2033124E-09	2793072E-13	5378614E-12	1915389E-13	1867539E-12	2894031E-15	2708788E-15	1283048E-13

FRIDAY, JUL 2, 1976

	X(42)	X(46)	X(36)
X(7)	-6105766E-06	-1187470E-08	-1714322E-09
X(19)	-1118925E-07	-4149080E-10	-1443878E-11
DC	-2994502E-07	-2435282E-09	-1226436E-10
X(18)	-2403913E-07	-8350306E-11	-1063644E-10
X(6)	-8906938E-08	-2342713E-08	-5967270E-09
X(16)	-1416510E-05	-6026735E-08	-3106513E-09
X(26)	-4807051E-07	-1572923E-08	-9951100E-10
X(10)	-2082484E-08	-1218827E-11	-2586154E-13
X(8)	-2688502E-05	-2031627E-07	-9784788E-10
X(27)	-3245089E-07	-5640712E-09	-2341037E-10
X(11)	-2229404E-09	-1560445E-11	-7352083E-14
X(23)	-3618641E-10	-2550285E-12	-1514687E-14
X(13)	-7570056E-10	-3923600E-14	-6882162E-13
X(28)	-3258263E-07	-1843829E-09	-3608837E-11
X(25)	-3081880E-13	-1482770E-15	-4772535E-17
X(20)	-2547134E-07	-2482673E-10	-5865982E-11
X(14)	-6492971E-06	-6643843E-08	-2033124E-09
X(30)	-8918770E-11	-9791489E-13	-2793072E-13
DT	-2584806E-07	-1286984E-10	-5378614E-12
X(15)	-8172980E-10	-2258234E-12	-1915389E-13
X(43)	-3434786E-08	-1805882E-10	-1887535E-12
X(21)	-3471224E-11	-2220911E-13	-2894031E-15
X(47)	-1789687E-10	-1244869E-12	-2708798E-15
X(37)	-4226209E-11	-5254761E-13	-1230408E-12
X(42)	-1102869E-07	-5377153E-10	-1185847E-11
X(46)	-5377153E-10	-3655476E-12	-6268715E-15
X(36)	-1185847E-11	-6268715E-15	-1172667E-14

ANALYSIS OF COVARIANCE TABLE

FRIDAY, JUL 2, 1976

SOURCE	DF	SS	SUM-SQUARES (DUE)	SUM-SQUARES (ABOUT)	DF	MEAN-SQUARE
TREATMENT (BETWEEN)	1	.1261130E+00				
ERROR (WITHIN)	741	.4880598E+01	.4872293E+01	.8304637E-02	741	.1120734E-04
TREATMENT + ERROR (TOTAL)	742	.5006711E+01	.4980291E+01	.8419326E-02	742	.1134680E-04
DIFFERENCE FOR TESTING ADJUSTED TREATMENT MEANS	1			.1146886E-03	1	.1146886E-03

NULL HYPOTHESIS: NO DIFFERENCE AMONG TREATMENTS AFTER ADJUSTING WITH COVARIATES.

F(1, 741) = 10.233

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

TREATMENT (BETWEEN)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	.493750000E+01	.754197006E+04	-.00065	50.02064
X(19)	.459289550E-02			
DC	.678710937E-01	.115641827E+03	-.00059	50.01868
X(18)	.141113281E+00	.354725202E+03	-.00040	50.01266
X(6)	.646875000E+01	.681453384E+04	.00095	50.03022
X(16)	.281250000E+02			
X(28)	.847658250E+00			
X(10)	.598140531E-02	.908148889E+01	.00066	50.02097
X(8)	.149062500E+02			
X(27)	.168457031E+00			
X(11)	.406265258E-03			
X(23)	.665644672E-02			
X(13)	.137329101E-03			
X(28)	.439453125E-02	.157136009E+03	.00003	50.00089
X(25)	.485463609E-06	.100946685E-02	.00048	50.01562
X(20)	.498046875E+00	.789812201E+03	-.00063	50.02007
X(14)	.360000000E+02	.719375202E+05	.00050	50.01593
X(30)	.186443328E-03			
DT	.244148625E+00			
X(15)	.278235839E-02	.207556023E+01	.00135	50.04282
X(43)	.854492187E-02	.891195728E+01	.00056	50.03052
X(21)	.655651092E-04	.194300988E+00	.00034	50.01074
X(47)	.467896451E-05	.157208138E-01	-.00020	50.00947
X(31)	.164895656E-03			
X(42)	.855200195E-02			
X(46)	.840425481E-05	.190649155E+01	-.00044	50.01403
X(36)	.552833080E-05			

FRIDAY, JUL 2, 1976

TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

ERROR (WITHIN)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	.355538648E-01	.142283528E-02	24.99163	100.00000
X(18)	.252325464E-04	.170599623E-05	-14.79050	100.00000
DC	.481327130E-03	.326825116E-04	-14.58701	100.00000
X(18)	.689745827E-04	.840417049E-05	-12.37482	100.00000
X(6)	.514857031E-01	.449651918E-02	11.45012	100.00000
X(16)	.415492513E-01	.385850073E-02	-10.76824	100.00000
X(28)	.524170045E-03	.528683073E-04	-9.91464	100.00000
X(10)	.651916362E-05	.668237507E-06	9.75578	100.00000
X(8)	.164013387E+00	.178928389E-01	-9.16643	100.00000
X(27)	.102888927E-02	.127021588E-04	8.07465	100.00000
X(11)	.277428705E-06	.481962885E-07	7.83107	100.00000
X(23)	.870894360E-07	.850733204E-08	7.88607	100.00000
X(13)	.298828460E-06	.379655193E-07	-7.86581	100.00000
X(28)	.118831345E-02	.171180690E-03	-6.94187	100.00000
X(25)	.151898437E-05	.222477174E-10	6.82146	100.00000
X(20)	.535667181E-03	.874493485E-04	6.12546	100.00000
X(14)	.768144551E-01	.135896230E-01	-5.65243	100.00000
X(30)	.275977814E-06	.501136655E-07	5.50703	100.00000
DT	.418049609E-03	.692097117E-04	6.04033	100.00000
X(15)	.111408260E-05	.214049213E-06	5.20480	99.99999
X(43)	.562108334E-06	.117540811E-06	-4.78224	99.99999
X(21)	.221648209E-07	.504202589E-08	-4.39989	99.99998
X(47)	.273898349E-08	.732818672E-09	3.72533	99.99999
X(31)	.425087826E-07	.119881928E-07	-3.54542	99.99917
X(42)	.110401188E-05	.251571197E-06	3.14022	99.91224
X(46)	.423434195E-08	.262465818E-08	-2.00200	98.18111
X(36)	.215972475E-09	.114640644E-09	1.88291	97.00157

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

TREATMENT-ERROR (TOTAL)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(1)	.3559846890E-01	.1431391022E-02	24.86984	100.00000
X(10)	.2512982385E-04	.1716274552E-05	-14.64208	100.00000
DC	.490067751E-03	.3389103884E-04	-14.48190	100.00000
X(18)	.4685428265E-04	.5427887156E-05	-72.29482	100.00000
X(5)	.5158089811E-01	.4524310639E-02	11.40083	100.00000
X(16)	.4162832686E-01	.3882354165E-02	-10.72244	100.00000
X(28)	.5305676544E-03	.5315815892E-04	-9.80093	100.00000
X(10)	.6530462258E-05	.6723729896E-06	9.71254	100.00000
X(8)	.1825975262E-00	.1800324763E-01	-9.08706	100.00000
X(27)	.1047558767E-03	.1278236403E-04	8.20819	100.00000
X(11)	.3787865356E-06	.4848335473E-07	7.81110	100.00000
X(23)	.6838924334E-07	.8557266753E-08	7.95823	100.00000
X(13)	.2816124516E-06	.3782418330E-07	-7.44531	100.00000
X(28)	.1194748622E-02	.1722027755E-02	-6.92892	100.00000
X(25)	.1518870449E-09	.2240583735E-10	6.77935	100.00000
X(20)	.5337462608E-03	.8788969585E-04	6.06601	100.00000
X(14)	.7711971951E-01	.1587358043E-01	-5.83998	100.00000
X(30)	.2807082514E-04	.5040258252E-07	5.58922	100.00000
07	.2628158090E-03	.6751732032E-04	5.38848	100.00000
X(15)	.1103057831E-05	.2153490717E-06	5.12218	99.99998
X(43)	.5682642552E-06	.1182626572E-06	-4.78819	99.99990
X(21)	.2225205614E-07	.5073255867E-08	-4.38815	99.99934
X(47)	.2753726771E-08	.7373263211E-09	3.73475	99.98988
X(37)	.4431177285E-07	.1205019085E-07	-3.67727	99.98736
X(42)	.1111822856E-05	.3537433544E-06	3.14302	99.91307
X(46)	.4248912295E-08	.2036608650E-08	-2.08627	99.13524
X(36)	.2112297319E-09	.1153426792E-09	1.83133	96.62742

TABLE OF ADJUSTED MEANS AND STANDARD ERRORS

TREATMENT NO.	TREATMENT MEAN	ADJUSTED MEAN	SE ADJUSTED
1	.4055491E+00	.3941703E+00	.3054807E-03
2	.3789314E+00	.3922970E+00	.3279592E-03

FRIDAY, JUL 2, 1976

FRIDAY, JUL 2, 1976

TABLE OF INTERCEPTS

INTERCEPT = -.5100840011E+01	
(BETWEEN)	
INTERCEPT = .3524255916E+00	
(TOTAL)	
TREATMENT NO.	INTERCEPT (WITHIN)
1	.3522068342E+00
2	.3512335574E+00

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
1	.3265000E+00	.3121919E+00	.1438080E-01	4.50	1
2	.3436000E+00	.3352483E+00	.8351668E-02	2.45	1
3	.3605000E+00	.3578903E+00	.2609731E-02	.73	1
4	.3802000E+00	.3807274E+00	-.574150E-03	-.14	1
5	.4021000E+00	.4078981E+00	-.4888074E-02	-1.23	1
6	.4215000E+00	.4376051E+00	-.4260534E-02	-.98	1
7	.4461000E+00	.4665851E+00	-.4851278E-03	-.10	1
8	.5010000E+00	.4994457E+00	.1554285E-02	.31	1
9	.5415000E+00	.5342322E+00	.7267766E-02	1.26	1
10	.5491000E+00	.5414120E+00	.7687999E-02	1.42	1
11	.5504000E+00	.5486642E+00	.1725766E-02	.32	1
12	.5501000E+00	.5559882E+00	-.5888248E-02	-1.06	1
13	.5526000E+00	.5623824E+00	-.9782378E-02	-1.74	1
14	.5288000E+00	.5209558E+00	.8844211E-02	2.76	1
15	.5488000E+00	.5500880E+00	-.4266808E-02	-.1.23	1
16	.5704000E+00	.5761261E+00	-.5726138E-02	-1.00	1
17	.5989000E+00	.6007396E+00	-.1839611E-02	-.46	1
18	.6285000E+00	.6300144E+00	-.4144030E-03	-.10	1
19	.6608000E+00	.6618178E+00	-.1017793E-02	-.22	1
20	.6952000E+00	.6980000E+00	-.7998885E-03	-.16	1
21	.8440000E+00	.8324243E+00	.1157567E-01	2.17	1
22	.8491000E+00	.8389674E+00	.9122583E-02	1.89	1
23	.8495000E+00	.8475945E+00	.2305336E-02	.42	1
24	.8495000E+00	.8553046E+00	-.5840461E-02	-.97	1
25	.8549000E+00	.8636870E+00	-.8187030E-02	-1.46	1
26	.8220000E+00	.8265897E+00	-.4581031E-02	-.72	1
27	.8515000E+00	.8536539E+00	-.2453893E-02	-.60	1
28	.8614000E+00	.8618888E+00	-.4888290E-03	-.12	1
29	.8114000E+00	.8096431E+00	.1756896E-02	.43	1
30	.8406000E+00	.8401707E+00	.4293099E-03	.10	1
31	.8730000E+00	.8729224E+00	.7760901E-04	.02	1
32	.8128000E+00	.8080716E+00	.4828437E-02	.75	1
33	.8498000E+00	.8466471E+00	.3132934E-02	.49	1
34	.8510000E+00	.8548112E+00	-.3811225E-02	-1.18	1
35	.8561000E+00	.8627628E+00	-.6662855E-02	-1.32	1
36	.8453000E+00	.8527628E+00	-.742430E-02	-.72	1
37	.8728000E+00	.8700828E+00	.2717237E-02	.62	1
38	.8811000E+00	.8970458E+00	-.4054200E-02	-.40	1
39	.8282000E+00	.8268152E+00	.1264785E-02	.20	1
40	.8588000E+00	.8597826E+00	-.9882637E-03	-.28	1
41	.8941000E+00	.8954965E+00	-.1396470E-02	-.31	1
42	.8441000E+00	.8328871E+00	.1021280E-01	1.31	1
43	.8498000E+00	.8418728E+00	.7927492E-02	.44	1
44	.8503000E+00	.8495576E+00	.7323874E-03	.04	1
45	.8618000E+00	.8620240E+00	-.2228099E-03	-.07	1
46	.8895000E+00	.8882811E+00	.1218209E-03	.03	1
47	.8200000E+00	.8197250E+00	.2742484E-03	.07	1
48	.8440000E+00	.8442637E+00	-.2637389E-03	-.08	1
49	.8898000E+00	.8853864E+00	.4459136E-02	.50	1
50	.8252000E+00	.8242644E+00	.9926132E-03	.17	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
51	.5353000E+00	.5324501E+00	.2849539E-02	.54	1
52	.2886000E+00	.2934517E+00	.5148326E-02	1.75	1
53	.3179000E+00	.3184111E+00	.518958E-02	.16	1
54	.3345000E+00	.3281342E+00	.636200E-02	.48	1
55	.3545000E+00	.3561963E+00	.166323E-02	.48	1
56	.3818000E+00	.3824290E+00	.6290195E-03	.16	1
57	.4091000E+00	.4089261E+00	.1738620E-03	.04	1
58	.4375000E+00	.4385246E+00	.1024609E-02	.23	1
59	.4667000E+00	.4679334E+00	.1233430E-02	.26	1
60	.4960000E+00	.5002125E+00	.4212476E-02	.84	1
61	.5029000E+00	.5068777E+00	.3977691E-02	.78	1
62	.5100000E+00	.5136111E+00	.3611085E-02	.70	1
63	.5182000E+00	.5204120E+00	.2112001E-02	.41	1
64	.3036000E+00	.3032902E+00	.3118248E-03	.10	1
65	.3272000E+00	.3295495E+00	.2348468E-02	.71	1
66	.3527000E+00	.3516854E+00	.1014555E-02	.29	1
67	.3778000E+00	.3763509E+00	.1448102E-02	.39	1
68	.4018000E+00	.4035752E+00	.1775228E-02	.44	1
69	.4278000E+00	.4332133E+00	.5313274E-02	1.22	1
70	.4579000E+00	.4651138E+00	.7213751E-02	1.55	1
71	.4978000E+00	.4991419E+00	.1341924E-02	.27	1
72	.5044000E+00	.5061923E+00	.1782314E-02	.35	1
73	.5117000E+00	.5133222E+00	.1622237E-02	.32	1
74	.3128000E+00	.3078046E+00	.4939589E-02	1.60	1
75	.3360000E+00	.3354088E+00	.5911673E-03	.18	1
76	.3615000E+00	.3585843E+00	.2915725E-02	.81	1
77	.3844000E+00	.3843927E+00	.7268731E-05	.00	1
78	.4101000E+00	.4128699E+00	.2769855E-02	.67	1
79	.4384000E+00	.4438659E+00	.5465866E-02	1.23	1
80	.4671000E+00	.4772237E+00	.1011656E-02	1.12	1
81	.4802000E+00	.4841640E+00	.3949950E-02	.82	1
82	.4910000E+00	.4911960E+00	.2098018E-02	.42	1
83	.4978000E+00	.4988128E+00	.102596E-03	.08	1
84	.5061000E+00	.5051155E+00	.9848953E-03	.12	1
85	.5132000E+00	.5128030E+00	.3989893E-03	.08	1
86	.3260000E+00	.3203566E+00	.5643407E-02	1.76	1
87	.3472000E+00	.3468818E+00	.3381711E-03	.10	1
88	.3727000E+00	.3719215E+00	.7784807E-03	.21	1
89	.3997000E+00	.3988429E+00	.1428963E-03	.04	1
90	.4267000E+00	.4306599E+00	.3959367E-02	.92	1
91	.4598000E+00	.4642084E+00	.4408356E-02	.99	1
92	.4870000E+00	.4912305E+00	.4230485E-02	.90	1
93	.4741000E+00	.4788537E+00	.475376E-02	.88	1
94	.4822000E+00	.4855767E+00	.3376674E-02	.70	1
95	.4912000E+00	.4928982E+00	.1688262E-02	.34	1
96	.5012000E+00	.5003173E+00	.8827467E-03	.18	1
97	.3384000E+00	.3300093E+00	.8390706E-02	2.54	1
98	.3623000E+00	.3620644E+00	.2358109E-03	.07	1
99	.3900000E+00	.3893616E+00	.6384438E-03	.16	1
100	.4171000E+00	.4198710E+00	.2770998E-02	.66	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
101	.4491000E+00	.4535982E+00	.4498236E-02	.99	1
102	.4558000E+00	.4607145E+00	.4814540E-02	1.07	1
103	.4634000E+00	.4679492E+00	.4549237E-02	.97	1
104	.4712000E+00	.4753017E+00	.4101727E-02	.88	1
105	.4791000E+00	.4827704E+00	.3670440E-02	.76	1
106	.2871000E+00	.2880996E+00	.9998364E-03	.37	1
107	.2861000E+00	.2857454E+00	.3545794E-03	.12	1
108	.3049000E+00	.3022442E+00	.2655656E-02	.88	1
109	.3231000E+00	.3211734E+00	.192648E-02	.60	1
110	.3416000E+00	.3423802E+00	.7802200E-03	.23	1
111	.3635000E+00	.3656782E+00	.2178204E-02	.60	1
112	.3889000E+00	.3908088E+00	.2008900E-02	.51	1
113	.4186000E+00	.4179412E+00	.6587662E-03	.16	1
114	.4238000E+00	.4235540E+00	.2458638E-03	.06	1
115	.4294000E+00	.4292237E+00	.1662776E-03	.04	1
116	.4352000E+00	.4349795E+00	.2204640E-03	.05	1
117	.4411000E+00	.4407907E+00	.3092550E-03	.07	1
118	.4473000E+00	.4466666E+00	.6332600E-03	.14	1
119	.2784000E+00	.2752764E+00	.3124612E-02	1.14	1
120	.3000000E+00	.2981530E+00	.1846974E-02	1.30	1
121	.3168000E+00	.3151328E+00	.1667161E-02	.53	1
122	.3363000E+00	.3367447E+00	.4446762E-03	.13	1
123	.3584000E+00	.3608857E+00	.2465680E-02	.68	1
124	.3828000E+00	.3873046E+00	.4504590E-02	.90	1
125	.4128000E+00	.4158928E+00	.3092800E-02	.75	1
126	.4205000E+00	.4218555E+00	.1355489E-02	.32	1
127	.4271000E+00	.4278974E+00	.7874129E-03	.19	1
128	.4338000E+00	.4340176E+00	.2175353E-03	.05	1
129	.4410000E+00	.4402151E+00	.788138E-03	.18	1
130	.4488000E+00	.4464890E+00	.2311023E-02	.52	1
131	.2847000E+00	.2816290E+00	.3070958E-02	1.09	1
132	.3052000E+00	.3009045E+00	.4293463E-02	1.43	1
133	.3229000E+00	.3205258E+00	.2374183E-02	.72	1
134	.3427000E+00	.3436807E+00	.986569E-03	.14	1
135	.3670000E+00	.3690545E+00	.2054454E-02	.56	1
136	.3943000E+00	.3968513E+00	.255129E-02	.64	1
137	.4258000E+00	.4268969E+00	.988517E-03	.23	1
138	.4327000E+00	.4331624E+00	.462426E-03	.11	1
139	.2960000E+00	.298110E+00	.210020E-02	.07	1
140	.2992000E+00	.2980216E+00	.1178416E-02	1.50	1
141	.3126000E+00	.3103744E+00	.225605E-02	.72	1
142	.3345000E+00	.3322779E+00	.222086E-02	.67	1
143	.3575000E+00	.3571457E+00	.3543155E-03	.10	1
144	.3845000E+00	.3848593E+00	.3593286E-03	.09	1
145	.4153000E+00	.4152087E+00	.913193E-04	.02	1
146	.4216000E+00	.4215777E+00	.2228312E-04	.01	1
147	.4283000E+00	.4280432E+00	.2568120E-03	.06	1
148	.3020000E+00	.2965857E+00	.5414329E-02	.83	1
149	.3250000E+00	.3232571E+00	.1742899E-02	.54	1
150	.3498000E+00	.3475881E+00	.220189E-02	.63	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
151	.3760000E+00	.3748539E+00	.1146058E-02	.31	1
152	.4060000E+00	.4054788E+00	.1021147E-02	.25	1
153	.4136000E+00	.4119628E+00	.6372136E-03	.15	1
154	.2520000E+00	.2513332E+00	.6618035E-03	.26	1
155	.2647000E+00	.2640767E+00	.6252796E-03	.24	1
156	.2782000E+00	.2782849E+00	-.8687451E-04	-.03	1
157	.2839000E+00	.2852835E+00	-.1383501E-02	-.47	1
158	.3116000E+00	.3147172E+00	-.3117174E-02	-.99	1
159	.3240000E+00	.3263248E+00	-.2324753E-02	-.69	1
160	.3577000E+00	.3599113E+00	-.2211335E-02	-.61	1
161	.3858000E+00	.3853255E+00	.4744667E-03	.12	1
162	.3908000E+00	.3906166E+00	.1834327E-03	.05	1
163	.3962000E+00	.3959748E+00	.2250851E-03	.06	1
164	.4019000E+00	.4013997E+00	.5002513E-03	.12	1
165	.2585000E+00	.2570259E+00	.1474146E-02	.57	1
166	.2734000E+00	.2729942E+00	.4057889E-03	.15	1
167	.2867000E+00	.2868853E+00	-.1472619E-04	.01	1
168	.3083000E+00	.3083867E+00	-.1066722E-02	-.34	1
169	.3298000E+00	.3317145E+00	-.1914538E-02	-.58	1
170	.3539000E+00	.3564630E+00	-.2563045E-02	-.72	1
171	.3822000E+00	.3824072E+00	-.1207241E-02	-.31	1
172	.3884000E+00	.3890447E+00	-.6447129E-03	.17	1
173	.3980000E+00	.3947623E+00	.3769186E-04	.01	1
174	.3519000E+00	.3502097E+00	.1690327E-02	.65	1
175	.2783000E+00	.2776222E+00	.6682121E-03	.30	1
176	.2954000E+00	.2951857E+00	.2043102E-03	.14	1
177	.3140000E+00	.3160201E+00	-.2014954E-04	-.01	1
178	.3382000E+00	.3386207E+00	-.420748E-02	-.42	1
179	.3639000E+00	.3657272E+00	-.1827220E-02	-.50	1
180	.3696000E+00	.3712298E+00	-.1629810E-02	-.44	1
181	.3754000E+00	.3768226E+00	-.1422613E-02	-.39	1
182	.3815000E+00	.3825042E+00	-.1004243E-02	-.26	1
183	.3878000E+00	.3882734E+00	-.4733728E-03	.12	1
184	.3951000E+00	.3971160E+00	-.2014011E-02	-.52	1
185	.2887000E+00	.2871595E+00	.1540461E-02	.54	1
186	.3083000E+00	.3067743E+00	.1525710E-02	.50	1
187	.3304000E+00	.3297117E+00	.6883186E-03	.21	1
188	.3550000E+00	.3556521E+00	-.6521258E-03	.21	1
189	.3605000E+00	.3611744E+00	-.6744023E-03	.18	1
190	.3661000E+00	.3668033E+00	-.7032622E-03	.19	1
191	.3719000E+00	.3725388E+00	-.6368360E-03	.17	1
192	.3779000E+00	.3782733E+00	-.353408E-03	.13	1
193	.2821000E+00	.2821601E+00	-.6012924E-04	.02	1
194	.3033000E+00	.3017244E+00	.1565572E-02	.52	1
195	.3236000E+00	.3235867E+00	.1333915E-04	.00	1
196	.3477000E+00	.3491121E+00	-.1412111E-02	-.40	1
197	.3529000E+00	.3546274E+00	-.1727388E-02	-.49	1
198	.3584000E+00	.3602728E+00	-.1827558E-02	-.52	1
199	.3641000E+00	.3660456E+00	-.1945600E-02	-.53	1
200	.3057000E+00	.3051117E+00	.5883270E-03	.19	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
201	.3284000E+00	.3294274E+00	-.2972618E-02	-.91	2
202	.3476000E+00	.3457865E+00	.1813405E-02	.52	2
203	.3715000E+00	.3722924E+00	-.7924230E-03	.21	2
204	.3930000E+00	.3964179E+00	-.3417903E-02	-.86	2
205	.4240000E+00	.4268189E+00	-.2818932E-02	-.66	2
206	.4592000E+00	.4583143E+00	.8856783E-03	.19	2
207	.4919000E+00	.4929349E+00	-.1034939E-02	-.21	2
208	.5297000E+00	.5297915E+00	-.9915264E-03	.11	2
209	.5419000E+00	.5374197E+00	.4480293E-02	.83	2
210	.5488000E+00	.5451313E+00	.3668463E-02	.67	2
211	.5498000E+00	.5529255E+00	-.3079940E-02	-.57	2
212	.3094000E+00	.3176729E+00	-.8277940E-02	-2.60	2
213	.3244000E+00	.3412205E+00	-.1882050E-02	-2.00	2
214	.3620000E+00	.3640606E+00	-.2060606E-02	-.57	2
215	.3920000E+00	.3905135E+00	.1486651E-02	.38	2
216	.4220000E+00	.4202899E+00	.1711124E-02	.41	2
217	.4503000E+00	.4530924E+00	-.2792430E-02	-.62	2
218	.4854000E+00	.4886838E+00	-.3283838E-02	-.67	2
219	.5225000E+00	.5266882E+00	-.4183882E-02	-.79	2
220	.5429000E+00	.5448016E+00	-.1908416E-02	.1.07	2
221	.5494000E+00	.5428310E+00	.6568982E-02	1.70	2
222	.5502000E+00	.5509554E+00	-.755498E-03	.1.21	2
223	.3174000E+00	.3234727E+00	-.6072717E-02	-.14	2
224	.3455000E+00	.3483074E+00	-.2807407E-02	-.81	2
225	.3743000E+00	.3721870E+00	.2113027E-02	.57	2
226	.4040000E+00	.3997828E+00	.4217156E-02	.1.05	2
227	.4350000E+00	.4320328E+00	.2966212E-02	.25	2
228	.4650000E+00	.4683801E+00	-.3380075E-02	-.72	2
229	.5028000E+00	.5020213E+00	.7787171E-03	.1.12	2
230	.5495000E+00	.5417568E+00	.7743174E-02	1.42	2
231	.5498000E+00	.5500113E+00	-.2112768E-03	.04	2
232	.3364000E+00	.3351488E+00	.1251958E-02	.37	2
233	.3647000E+00	.3621717E+00	.2528222E-02	.70	2
234	.3925000E+00	.3879355E+00	.4564515E-02	.1.43	2
235	.4180000E+00	.4150241E+00	.2975862E-02	.72	2
236	.4480000E+00	.4472720E+00	.7278531E-03	.16	2
237	.4852000E+00	.4877263E+00	-.252470E-02	.30	2
238	.4987000E+00	.4854468E+00	.13253158E-02	.64	2
239	.5040000E+00	.5032888E+00	.711194E-02	.70	2
240	.5150000E+00	.5112505E+00	.3749539E-02	.65	2
241	.5257000E+00	.5182591E+00	.7318880E-02	1.23	2
242	.5361000E+00	.5275262E+00	.8573844E-02	1.63	2
243	.5332000E+00	.5312546E+00	.1945233E-02	.55	2
244	.3807000E+00	.3805961E+00	.1038701E-03	.03	2
245	.4070000E+00	.4085974E+00	-.1597421E-02	-.39	2
246	.4382000E+00	.4408943E+00	-.2694279E-02	-.61	2
247	.4759000E+00	.4771736E+00	-.273583E-02	-.57	2
248	.4954000E+00	.4848763E+00	.1055231E-02	.1.11	2
249	.4939000E+00	.4927219E+00	.1178078E-02	.24	2
250	.5022000E+00	.5007082E+00	.1491789E-02	.30	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
251	.5103000E+00	.5088329E+00	.1467148E-02	.29	2
252	.5189000E+00	.5170937E+00	.1806290E-02	.35	2
253	.5240000E+00	.522777E+00	.1222158E-02	.23	2
254	.5048000E+00	.5073392E+00	-.2531170E-02	-.83	2
255	.5275000E+00	.5264518E+00	.1048235E-02	.32	2
256	.5474000E+00	.5472962E+00	.1037796E-03	.03	2
257	.5734000E+00	.5717087E+00	.1697890E-02	.46	2
258	.5985000E+00	.5986961E+00	-.1960830E-03	-.05	2
259	.6261000E+00	.6280451E+00	-.1945126E-02	-.45	2
260	.6579000E+00	.6611390E+00	-.3238002E-02	-.70	2
261	.6886000E+00	.6931731E+00	-.4573082E-02	-.72	2
262	.6965000E+00	.6901203E+00	.6426334E-02	.73	2
263	.2948000E+00	.3000683E+00	-.5268304E-02	-.176	2
264	.5197000E+00	.5213512E+00	-.166168E-02	-.52	2
265	.5445000E+00	.5422383E+00	.2261706E-02	.66	2
266	.5664000E+00	.5644829E+00	.191922E-04	-.02	2
267	.5913000E+00	.5930900E+00	-.1708962E-02	-.64	2
268	.6213000E+00	.6239379E+00	-.2637862E-02	-.82	2
269	.6521000E+00	.6566445E+00	-.4544520E-02	-.100	2
270	.6812000E+00	.6817471E+00	-.5471497E-03	-.11	2
271	.6981000E+00	.6990416E+00	-.9415704E-03	-.19	2
272	.5015000E+00	.5050064E+00	-.3508421E-02	-.115	2
273	.5289000E+00	.5275864E+00	.1314142E-02	.21	2
274	.5505000E+00	.5495030E+00	.9999936E-03	.29	2
275	.5738000E+00	.5748907E+00	-.1090655E-02	-.34	2
276	.6019000E+00	.6034695E+00	-.1569471E-02	-.39	2
277	.6310000E+00	.6349563E+00	-.3956337E-02	-.31	2
278	.6652000E+00	.6691203E+00	-.3920306E-02	-.84	2
279	.6732000E+00	.6762572E+00	-.3057235E-02	-.64	2
280	.6816000E+00	.6834923E+00	-.1892331E-02	-.39	2
281	.6901000E+00	.6908243E+00	-.7243208E-03	-.15	2
282	.5116000E+00	.5148607E+00	-.3260713E-02	-.104	2
283	.5385000E+00	.5386288E+00	-.1328751E-02	-.82	2
284	.5633000E+00	.5634296E+00	-.1295833E-03	-.04	2
285	.5909000E+00	.5909302E+00	-.3016176E-04	-.01	2
286	.6185000E+00	.6216488E+00	-.3148825E-02	-.56	2
287	.6522000E+00	.6558882E+00	-.3688169E-02	-.81	2
288	.6597000E+00	.6630481E+00	-.334088E-02	-.72	2
289	.6876000E+00	.6903212E+00	-.2721174E-02	-.58	2
290	.6760000E+00	.6777058E+00	-.1705775E-02	-.36	2
291	.5263000E+00	.5283021E+00	-.2002108E-02	-.61	2
292	.5525000E+00	.5553888E+00	-.288774E-02	-.59	2
293	.5810000E+00	.5816271E+00	-.6270908E-03	-.11	2
294	.6100000E+00	.6115157E+00	-.1515726E-02	-.37	2
295	.6418000E+00	.6453457E+00	-.3545656E-02	-.80	2
296	.6690000E+00	.6725309E+00	-.3530909E-02	-.78	2
297	.6850000E+00	.6898502E+00	-.4850262E-02	-.73	2
298	.6613000E+00	.6640511E+00	-.2751076E-02	-.104	2
299	.2780000E+00	.2774107E+00	.5892218E-03	.21	2
300	.2955000E+00	.2926731E+00	.2826853E-02	.97	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
301	.5128000E+00	.5110210E+00	.1778964E-02	.57	2
302	.5331000E+00	.5320458E+00	.1054169E-02	.32	2
303	.5547000E+00	.5554540E+00	-.7540126E-03	-.21	2
304	.5808000E+00	.5810286E+00	-.226494E-03	-.11	2
305	.6117000E+00	.6086021E+00	.3097897E-02	.76	2
306	.6171000E+00	.6143444E+00	.2755628E-02	.67	2
307	.6230000E+00	.6201602E+00	.2837992E-02	.69	2
308	.6292000E+00	.6260477E+00	.3151318E-02	.74	2
309	.6359000E+00	.6320989E+00	.3819068E-02	.83	2
310	.6711000E+00	.6721815E+00	-.1081472E-02	-.10	2
311	.6892000E+00	.6887729E+00	.4270732E-03	.15	2
312	.5078000E+00	.5065183E+00	.1263714E-02	.35	2
313	.5278000E+00	.5275470E+00	.2529950E-03	.08	2
314	.5501000E+00	.5514859E+00	-.1385933E-02	-.39	2
315	.5763000E+00	.5780350E+00	-.1735043E-02	-.46	2
316	.6072000E+00	.6069673E+00	.2327087E-03	.06	2
317	.6139000E+00	.6130234E+00	.8768330E-03	.21	2
318	.6212000E+00	.6191683E+00	.2032709E-02	.49	2
319	.6284000E+00	.6253989E+00	.3005125E-02	.91	2
320	.6745000E+00	.6760137E+00	-.151736E-02	-.55	2
321	.6956000E+00	.6938923E+00	.1707680E-02	.58	2
322	.5141000E+00	.5126751E+00	.1424854E-02	.46	2
323	.5351000E+00	.5348489E+00	.2511324E-03	.07	2
324	.5590000E+00	.5600406E+00	-.1040589E-02	-.29	2
325	.5874000E+00	.5879477E+00	-.5476637E-03	-.14	2
326	.5836000E+00	.5838335E+00	-.2334529E-03	-.06	2
327	.6000000E+00	.5988168E+00	.11822665E-02	.05	2
328	.6066000E+00	.6058962E+00	.7038372E-02	.17	2
329	.6135000E+00	.6120701E+00	.1428985E-02	.35	2
330	.6205000E+00	.6183372E+00	.2162773E-02	.52	2
331	.6225000E+00	.6238829E+00	-.1382890E-02	-.49	2
332	.5044000E+00	.5039495E+00	.4504813E-03	.15	2
333	.5265000E+00	.524616E+00	.1882416E-02	.58	2
334	.5499000E+00	.5489032E+00	.9967838E-03	.29	2
335	.5773000E+00	.5764348E+00	.8651954E-03	.23	2
336	.5822000E+00	.5823012E+00	-.9987428E-03	-.26	2
337	.5895000E+00	.5882824E+00	.1217556E-02	.31	2
338	.5959000E+00	.5943743E+00	.1522689E-02	.29	2
339	.6030000E+00	.6008984E+00	.2019087E-02	.50	2
340	.6095000E+00	.6068944E+00	.2605644E-02	.64	2
341	.2928000E+00	.2950044E+00	-.2104440E-02	-.71	2
342	.5172000E+00	.5173887E+00	-.1696971E-03	-.06	2
343	.5474000E+00	.5402942E+00	.7105753E-02	.62	2
344	.5691000E+00	.5671690E+00	.1931044E-02	.53	2
345	.5750000E+00	.5729844E+00	.2015645E-02	.54	2
346	.5811000E+00	.5789392E+00	.2160842E-02	.57	2
347	.5873000E+00	.5850205E+00	.2269525E-02	.89	2
348	.5937000E+00	.5912536E+00	.2444443E-02	.62	2
349	.2456000E+00	.2474158E+00	-.1815591E-02	-.73	2
350	.2559000E+00	.2558178E+00	.8177614E-03	.12	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
351	.2705000E+00	.2680027E+00	.1497291E-02	.56	2
352	.2863000E+00	.2857400E+00	.5599717E-03	.20	2
353	.3021000E+00	.3035913E+00	-.1113252E-02	-.39	2
354	.3253000E+00	.3275810E+00	-.2281039E-02	-.70	2
355	.3506000E+00	.3520414E+00	-.1441393E-02	-.41	2
356	.3787000E+00	.3785801E+00	.1119800E-02	.30	2
357	.3849000E+00	.3841234E+00	.7786403E-03	.20	2
358	.3905000E+00	.3897425E+00	.7574718E-03	.19	2
359	.2521000E+00	.2540579E+00	-.1957893E-02	-.77	2
360	.2651000E+00	.2658919E+00	-.5919162E-03	-.22	2
361	.2819000E+00	.2813578E+00	.5422459E-03	.19	2
362	.3009000E+00	.3007779E+00	.1220965E-03	.04	2
363	.3228000E+00	.3233453E+00	-.5453017E-03	-.17	2
364	.3472000E+00	.3486740E+00	-.1475975E-02	-.42	2
365	.3761000E+00	.3764919E+00	-.3919435E-03	-.10	2
366	.3824000E+00	.3823354E+00	.6463978E-04	.02	2
367	.2557000E+00	.2576076E+00	-.1907594E-02	-.74	2
368	.2701000E+00	.2705287E+00	-.4287459E-03	-.16	2
369	.2881000E+00	.2872341E+00	.8659500E-03	.30	2
370	.3087000E+00	.3077972E+00	.9027974E-03	.29	2
371	.3323000E+00	.3316174E+00	.6826057E-03	.21	2
372	.3576000E+00	.3583040E+00	-.7040324E-03	-.20	2
373	.3634000E+00	.3638595E+00	-.5595079E-03	-.15	2
374	.3844000E+00	.3897155E+00	-.5164789E-03	-.09	2
375	.3755000E+00	.3755732E+00	-.2880236E-04	.01	2
376	.2634000E+00	.2657033E+00	-.2303251E-02	-.87	2
377	.2807000E+00	.2808124E+00	-.1124475E-03	-.04	2
378	.2912000E+00	.2994020E+00	-.1798009E-02	-.60	2
379	.3238000E+00	.3220781E+00	.1721926E-02	.53	2
380	.3490000E+00	.3482381E+00	.7618876E-03	.22	2
381	.3545000E+00	.3538502E+00	.6497877E-03	.18	2
382	.3602000E+00	.3595825E+00	.6174594E-03	.17	2
383	.2771000E+00	.2785170E+00	-.14816974E-02	-.53	2
384	.2967000E+00	.2959448E+00	.7552010E-03	.26	2
385	.3173000E+00	.3167718E+00	.5281724E-03	.17	2
386	.3419000E+00	.3420340E+00	-.1358672E-03	-.04	2
387	.3475000E+00	.3475617E+00	-.6173733E-04	-.02	2
388	.2936000E+00	.2919199E+00	.1680051E-02	.58	2
389	.3129000E+00	.3129549E+00	-.5436127E-04	-.02	2
390	.3347000E+00	.3339818E+00	.7182096E-03	.22	2
391	.3605000E+00	.3610242E+00	-.5242403E-03	-.15	2
392	.3844000E+00	.3842336E+00	.1664203E-03	.04	2
393	.4113000E+00	.4168399E+00	-.2440089E-02	-.59	2
394	.4488000E+00	.4500870E+00	-.1286974E-02	-.29	2
395	.4844000E+00	.4857972E+00	-.1397214E-02	-.29	2
396	.5174000E+00	.5238114E+00	-.6411430E-02	-.12	2
397	.5285000E+00	.5216790E+00	.6789632E-02	.60	2
398	.5401000E+00	.5396325E+00	.4675295E-03	.09	2
399	.7018000E+00	.7054359E+00	-.3635860E-02	-.19	2
400	.7287000E+00	.7297026E+00	-.1602625E-02	-.49	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
401	.3555000E+00	.3572104E+00	-.2389556E-02	-.68	2
402	.3846000E+00	.3804279E+00	.4172055E-02	.10	2
403	.4131000E+00	.4110592E+00	.2040803E-02	.50	2
404	.4395000E+00	.4448025E+00	-.5302455E-02	-.19	2
405	.4778000E+00	.4814111E+00	-.3611132E-02	-.75	2
406	.5189000E+00	.5206851E+00	-.1785117E-02	-.34	2
407	.5215000E+00	.5288447E+00	-.2655282E-02	-.50	2
408	.3108000E+00	.3116015E+00	-.8015191E-03	-.26	2
409	.3342000E+00	.3371594E+00	-.2944587E-02	-.31	2
410	.3646000E+00	.3617037E+00	.2897301E-02	.35	2
411	.3954000E+00	.3900632E+00	.5326797E-02	.137	2
412	.4210000E+00	.4203538E+00	.6462080E-03	.15	2
413	.4528000E+00	.4570485E+00	-.4248472E-02	-.93	2
414	.4953000E+00	.4951145E+00	.1855391E-03	.04	2
415	.5054000E+00	.5030646E+00	.2335352E-02	.46	2
416	.5147000E+00	.5111236E+00	.3576366E-02	.70	2
417	.5232000E+00	.5192900E+00	.3909981E-02	.75	2
418	.5332000E+00	.5275625E+00	.5637549E-02	1.07	2
419	.5243000E+00	.5238971E+00	.2432913E-02	.75	2
420	.3538000E+00	.3516090E+00	.2190974E-02	.62	2
421	.3820500E+00	.3780406E+00	.3959449E-02	1.05	2
422	.4081000E+00	.4085140E+00	-.4860147E-03	.17	2
423	.4405000E+00	.4427179E+00	-.2237877E-02	-.51	2
424	.4786000E+00	.4803916E+00	-.1791572E-02	-.16	2
425	.4892000E+00	.4883095E+00	.8904793E-03	.18	2
426	.4952000E+00	.4963520E+00	-.2848032E-02	-.57	2
427	.5081000E+00	.5045171E+00	.3582880E-02	.71	2
428	.5176000E+00	.5113032E+00	.6366756E-02	.94	2
429	.7293000E+00	.7405304E+00	-.1230373E-02	-.16	2
430	.7683000E+00	.7705996E+00	-.2290940E-02	-.35	2
431	.3987000E+00	.3993800E+00	-.6680498E-03	.11	2
432	.4302000E+00	.4223214E+00	.7878786E-02	.49	2
433	.4671000E+00	.4694566E+00	-.2356600E-02	-.50	2
434	.4761000E+00	.4773407E+00	-.1240725E-02	-.26	2
435	.4856000E+00	.4853711E+00	.2288744E-03	.05	2
436	.7474000E+00	.7652632E+00	-.1826277E-02	-.66	2
437	.2919000E+00	.2959215E+00	-.4021522E-02	-.136	2
438	.3168000E+00	.3149259E+00	.1874144E-02	.60	2
439	.3400000E+00	.3369121E+00	.3007897E-02	.89	2
440	.3632000E+00	.3618609E+00	.1330085E-02	.37	2
441	.3878000E+00	.3884825E+00	-.668882E-03	.14	2
442	.4187900E+00	.4190426E+00	-.245738E-03	.08	2
443	.4523000E+00	.4509855E+00	.1314489E-02	.29	2
444	.4580000E+00	.4576233E+00	.3767313E-03	.08	2
445	.4641000E+00	.4643417E+00	-.2417353E-03	.05	2
446	.4704000E+00	.4711400E+00	-.7399729E-03	-.16	2
447	.4770000E+00	.4780171E+00	-.1017075E-02	-.21	2
448	.4838000E+00	.4849722E+00	-.1172185E-02	-.24	2
449	.7084000E+00	.7082721E+00	.1279333E-03	.04	2
450	.7199000E+00	.7199992E+00	-.935310E-06	.00	2

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
451	.3341000E+00	.3323844E+00	.1715610E-02	.52	2
452	.3559000E+00	.3571335E+00	-.1233466E-02	-.35	2
453	.3820000E+00	.3849164E+00	-.2916411E-02	-.76	2
454	.4123000E+00	.4154757E+00	-.3175706E-02	-.76	2
455	.4452000E+00	.4485966E+00	-.3396612E-02	-.76	2
456	.4526000E+00	.4555121E+00	-.2912132E-02	-.64	2
457	.4601000E+00	.4625217E+00	-.2421740E-02	-.52	2
458	.4685000E+00	.4696242E+00	-.1124236E-02	-.24	2
459	.4770000E+00	.4768185E+00	.1815401E-03	.04	2
460	.4855000E+00	.4841033E+00	.1396707E-02	.29	2
461	.4942000E+00	.4925781E+00	.1623339E-03	.21	2
462	.5178000E+00	.5174803E+00	.3097073E-03	.10	2
463	.5389000E+00	.5400150E+00	-.1149839E-03	-.03	2
464	.5645000E+00	.5658071E+00	-.1407063E-02	-.38	2
465	.5923000E+00	.5946428E+00	-.2342802E-02	-.67	2
466	.6233000E+00	.6268601E+00	-.3560622E-02	-.83	2
467	.6587000E+00	.6614383E+00	-.2738280E-02	-.59	2
468	.6868000E+00	.6886567E+00	-.1856682E-02	-.40	2
469	.7154000E+00	.7159728E+00	-.5729041E-03	-.12	2
470	.7426000E+00	.7440197E+00	-.1413699E-02	-.47	2
471	.7670000E+00	.7691220E+00	-.1421971E-02	-.43	2
472	.7846000E+00	.7855308E+00	-.8909822E-04	.02	2
473	.8117000E+00	.8125358E+00	-.8359113E-03	-.22	2
474	.8425000E+00	.8429115E+00	-.4171496E-02	-.34	2
475	.8658000E+00	.8683612E+00	-.2781234E-02	-.62	2
476	.8922000E+00	.8956251E+00	-.3425061E-02	-.53	2
477	.9163000E+00	.9180186E+00	-.1718556E-02	-.54	2
478	.9437000E+00	.9464285E+00	-.2729456E-02	-.79	2
479	.9750000E+00	.9730558E+00	.19587188E-04	-.02	2
480	.4032000E+00	.4035788E+00	-.3789383E-03	-.12	2
481	.4091000E+00	.4102511E+00	-.1151099E-02	-.28	2
482	.4152000E+00	.4169684E+00	-.1768375E-02	-.42	2
483	.4216000E+00	.4238282E+00	-.2228218E-02	-.53	2
484	.4281000E+00	.4308282E+00	-.2728154E-02	-.63	2
485	.4351000E+00	.4379658E+00	-.2865790E-02	-.65	2
486	.2542000E+00	.2521819E+00	.2018119E-02	.80	2
487	.2695000E+00	.2675580E+00	.1942038E-02	.54	2
488	.2848000E+00	.2834545E+00	.1324872E-02	.48	2
489	.3036000E+00	.3021428E+00	.1457064E-02	.48	2
490	.3241000E+00	.3233408E+00	.7591154E-03	.23	2
491	.3484000E+00	.3467988E+00	.1688061E-03	-.11	2
492	.3727000E+00	.3723256E+00	.3744470E-03	.10	2
493	.4048000E+00	.3997696E+00	.5020380E-02	1.21	2
494	.4104000E+00	.4054773E+00	.4922734E-02	1.21	2
495	.4168000E+00	.4112557E+00	.5544266E-02	1.30	2
496	.4252000E+00	.4171042E+00	.8095818E-02	1.46	2
497	.2623000E+00	.2612486E+00	.1033079E-02	.40	2
498	.2785000E+00	.2767498E+00	.1748525E-03	.13	2
499	.2983000E+00	.2982487E+00	.5128896E-04	.02	2
500	.3197000E+00	.3196235E+00	.7645118E-04	.02	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
501	.3423000E+00	.3437356E+00	-.1435631E-02	-.42	2
502	.3687000E+00	.3703345E+00	-.1634480E-02	-.44	2
503	.4006000E+00	.3992186E+00	.1381115E-02	.35	2
504	.4078000E+00	.4052551E+00	.2544852E-02	.63	2
505	.4152000E+00	.4113752E+00	.3824839E-02	.93	2
506	.2667000E+00	.2654651E+00	.1234933E-02	.47	2
507	.2846000E+00	.2853601E+00	-.7601303E-03	-.27	2
508	.3053000E+00	.3047735E+00	.5265476E-03	.17	2
509	.3274000E+00	.3272913E+00	.1087066E-03	.03	2
510	.3515000E+00	.3526562E+00	-.1156169E-02	-.33	2
511	.3802000E+00	.3806120E+00	-.4129832E-03	-.11	2
512	.3865000E+00	.3864964E+00	.3610129E-05	.00	2
513	.3831000E+00	.3824736E+00	.6263806E-03	.16	2
514	.4000000E+00	.3985433E+00	.1456715E-02	.37	2
515	.2754000E+00	.2738236E+00	.1476438E-02	.54	2
516	.2953000E+00	.2960067E+00	-.7064700E-03	-.24	2
517	.3191000E+00	.3173042E+00	.1785768E-02	.57	2
518	.3429000E+00	.3419350E+00	.9649971E-03	.28	2
519	.3704000E+00	.3686387E+00	.17602748E-03	.21	2
520	.3764000E+00	.3755250E+00	.8750250E-03	.23	2
521	.3826000E+00	.3815203E+00	.1079674E-02	.28	2
522	.3891000E+00	.3876239E+00	.1476056E-02	.38	2
523	.2868000E+00	.2856026E+00	.1197425E-02	.42	2
524	.3096000E+00	.3100042E+00	-.4042110E-02	-.13	2
525	.3356000E+00	.3335394E+00	.2060642E-02	.62	2
526	.3629000E+00	.3607582E+00	.2141815E-02	.59	2
527	.3688000E+00	.3666199E+00	.2180121E-02	.59	2
528	.2363000E+00	.2364281E+00	-.1280822E-03	-.05	2
529	.2471000E+00	.2487988E+00	-.1613390E-03	.12	2
530	.2622000E+00	.2608255E+00	.1374748E-02	.53	2
531	.2788000E+00	.2782285E+00	.5734889E-03	.21	2
532	.2973000E+00	.2944546E+00	.1154589E-02	.39	2
533	.3187000E+00	.3211620E+00	-.2462040E-02	-.77	2
534	.3438000E+00	.3461042E+00	-.2304237E-02	-.67	2
535	.3733000E+00	.3730971E+00	.2029154E-03	.05	2
536	.3787000E+00	.3787284E+00	-.2844058E-04	-.01	2
537	.2439000E+00	.2440250E+00	-.1250283E-03	-.05	2
538	.2573000E+00	.2576274E+00	-.3273800E-03	-.17	2
539	.2743000E+00	.2741346E+00	.1650533E-03	.06	2
540	.2935000E+00	.2942180E+00	-.7180203E-03	-.11	2
541	.3165000E+00	.3172612E+00	-.6612411E-03	-.27	2
542	.3410000E+00	.3432096E+00	-.2209620E-02	-.64	2
543	.3684000E+00	.3688804E+00	-.488399E-03	-.13	2
544	.3519000E+00	.3542473E+00	-.2347349E-02	-.66	2
545	.3577000E+00	.3598089E+00	-.2208851E-02	-.61	2
546	.3838000E+00	.3856634E+00	-.1823367E-02	-.51	2
547	.2475000E+00	.2479406E+00	-.4461727E-04	-.02	2
548	.2658000E+00	.2628301E+00	.2960716E-03	.13	2
549	.2809000E+00	.2802771E+00	.6228814E-03	.19	2
550	.3018000E+00	.3018042E+00	-.4857986E-03	.06	2

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
551	.3254000E+00	.3259992E+00	-.5892156E-03	-.18	2
552	.3517000E+00	.3532056E+00	-.1505560E-02	-.43	2
553	.3575000E+00	.3589600E+00	-.1460037E-02	-.41	2
554	.2564000E+00	.2566256E+00	-.2256091E-03	-.09	2
555	.2736000E+00	.2737031E+00	-.1031141E-03	-.04	2
556	.2943000E+00	.2931344E+00	.1165599E-02	.40	2
557	.3178000E+00	.3164744E+00	.1325586E-02	.42	2
558	.3227000E+00	.3215634E+00	.1136570E-02	.35	2
559	.3278000E+00	.3267844E+00	.1015562E-02	.31	2
560	.3328000E+00	.3321343E+00	.6656722E-03	.20	2
561	.3379000E+00	.3376102E+00	.2898149E-03	.09	2
562	.3432000E+00	.3432093E+00	-.9276624E-05	-.00	2
563	.2675000E+00	.2699168E+00	-.2496795E-02	-.92	2
564	.2875000E+00	.2893929E+00	-.1892928E-02	-.65	2
565	.3115000E+00	.3110617E+00	.4383003E-03	.14	2
566	.3162000E+00	.3159261E+00	.2739455E-03	.09	2
567	.3211000E+00	.3209555E+00	.1444602E-03	.05	2
568	.3260000E+00	.3261455E+00	-.1455122E-03	-.04	2
569	.3156000E+00	.3117134E+00	.3886617E-02	1.25	1
570	.3485000E+00	.3450775E+00	.1422493E-02	.41	1
571	.3750000E+00	.3676201E+00	.7378875E-02	2.01	1
572	.3885000E+00	.3900449E+00	-.6455076E-02	-1.65	1
573	.4116000E+00	.4159050E+00	-.4308969E-02	-1.04	1
574	.4374000E+00	.4435673E+00	-.6167266E-02	-1.39	1
575	.4734000E+00	.4729827E+00	.4173426E-03	.09	1
576	.5211000E+00	.5040832E+00	.1701679E-01	3.38	1
577	.5474000E+00	.5367997E+00	.1060033E-01	1.97	1
578	.5496000E+00	.5435310E+00	.6068982E-02	1.12	1
579	.5502000E+00	.5503239E+00	-.1238736E-03	-.02	1
580	.5505000E+00	.5571777E+00	-.6677743E-02	-1.20	1
581	.5543000E+00	.5640921E+00	-.9792145E-02	-1.74	1
582	.5589000E+00	.5710666E+00	-.1126661E-01	-1.97	1
583	.3165000E+00	.3223854E+00	-.5865361E-02	-1.82	1
584	.3504000E+00	.3570798E+00	-.6678838E-02	-1.87	1
585	.3818000E+00	.3823184E+00	-.5183983E-03	-.14	1
586	.4050000E+00	.4090925E+00	-.4082476E-02	-1.00	1
587	.4356000E+00	.4378667E+00	-.2266653E-02	-.52	1
588	.4701000E+00	.4686699E+00	.1430121E-02	.31	1
589	.5100000E+00	.5014429E+00	.8557116E-02	1.71	1
590	.5482000E+00	.5361072E+00	.1209282E-01	2.26	1
591	.5495000E+00	.5432600E+00	.6240030E-02	1.15	1
592	.5500000E+00	.5504846E+00	-.4861134E-03	-.09	1
593	.5507000E+00	.5577805E+00	-.7090510E-02	-1.27	1
594	.5555000E+00	.5651471E+00	-.9647064E-02	-1.71	1
595	.5611000E+00	.5725937E+00	-.1148369E-01	-2.01	1
596	.3200000E+00	.3274234E+00	-.7433275E-02	-2.27	1
597	.3545000E+00	.3634350E+00	-.8934980E-02	-2.46	1
598	.3882000E+00	.3897130E+00	-.1513008E-02	-.39	1
599	.4170000E+00	.4176301E+00	-.6300875E-03	-.15	1
600	.4487000E+00	.4476571E+00	.1042941E-02	.23	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
601	.4808000E+00	.4798182E+00	.9817511E-03	.20	1
602	.5217000E+00	.5140486E+00	.7651434E-02	1.49	1
603	.5500000E+00	.5502640E+00	-.2640495E-03	-.05	1
604	.5509000E+00	.5577379E+00	-.6837896E-02	-1.23	1
605	.5566000E+00	.5652871E+00	-.8687123E-02	-1.54	1
606	.5629000E+00	.5729111E+00	-.1001109E-01	-1.75	1
607	.3346000E+00	.3379309E+00	-.3330920E-02	-.99	1
608	.3707000E+00	.3761204E+00	-.5420570E-02	-1.44	1
609	.4078000E+00	.4040928E+00	.3517162E-02	.87	1
610	.4378000E+00	.4343128E+00	.3487153E-02	.80	1
611	.4672000E+00	.4666797E+00	.5203350E-03	.11	1
612	.5026000E+00	.5013933E+00	.1206667E-02	.24	1
613	.5488000E+00	.5383748E+00	.1042524E-01	1.94	1
614	.5489000E+00	.5460247E+00	.2865267E-02	.52	1
615	.5507000E+00	.5537809E+00	-.3080784E-02	-.56	1
616	.5547000E+00	.5616121E+00	-.6912145E-02	-1.23	1
617	.5608000E+00	.5695281E+00	-.8728055E-02	-1.53	1
618	.3455000E+00	.3529218E+00	-.7421817E-02	-2.10	1
619	.3857000E+00	.3936301E+00	-.7930096E-02	-1.98	1
620	.4254000E+00	.4238298E+00	.1570151E-02	.37	1
621	.4559000E+00	.4532281E+00	.2271932E-02	.50	1
622	.4925000E+00	.4917260E+00	.7740002E-03	.16	1
623	.5342000E+00	.5296458E+00	.4554213E-02	.86	1
624	.5438000E+00	.5375381E+00	.6261853E-02	1.16	1
625	.5494000E+00	.5455312E+00	.3868825E-02	.71	1
626	.5501000E+00	.5536239E+00	-.3523935E-02	-.64	1
627	.2925000E+00	.2957529E+00	-.3252913E-02	-1.10	1
628	.3190000E+00	.3237508E+00	-.4750782E-02	-1.47	1
629	.3475000E+00	.3464647E+00	.1035282E-02	.29	1
630	.3645000E+00	.3645825E+00	-.9176675E-03	-.25	1
631	.3885000E+00	.3912747E+00	-.2776652E-02	-.71	1
632	.4140000E+00	.4185651E+00	-.4565077E-02	-1.09	1
633	.4415000E+00	.4450196E+00	-.3519600E-02	-.79	1
634	.4721000E+00	.4744096E+00	-.2309571E-02	-.49	1
635	.5068000E+00	.5053788E+00	.1221406E-02	.24	1
636	.5159000E+00	.5117558E+00	.4144279E-02	.81	1
637	.5240000E+00	.5181929E+00	.5807119E-02	1.12	1
638	.5315000E+00	.5246893E+00	.6810870E-02	1.30	1
639	.5385000E+00	.5312445E+00	.7253785E-02	1.37	1
640	.3005000E+00	.3046344E+00	-.4134770E-02	-1.36	1
641	.3210000E+00	.3258645E+00	-.4864492E-02	-1.45	1
642	.3601000E+00	.3592593E+00	.8406809E-03	.23	1
643	.3967000E+00	.3943458E+00	.2354423E-02	.61	1
644	.4112000E+00	.4114682E+00	-.2682159E-03	-.07	1
645	.4354000E+00	.4406154E+00	-.5219408E-02	-1.18	1
646	.4665000E+00	.4717087E+00	-.5209706E-02	-1.10	1
647	.5086000E+00	.5046634E+00	.3936579E-02	.78	1
648	.5182000E+00	.5114698E+00	.6730220E-02	1.32	1
649	.5259000E+00	.5183465E+00	.7553510E-02	1.46	1
650	.5279000E+00	.5252929E+00	.2597079E-02	.43	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
651	5402000E+00	5323085E+00	7891542E-02	1.48	1
652	3082000E+00	3088411E+00	-6411234E-03	-.21	1
653	3293000E+00	3413580E+00	-2057874E-02	-.60	1
654	3699000E+00	3657923E+00	4107732E-02	1.12	1
655	3959000E+00	3920215E+00	3878471E-02	.99	1
656	4176000E+00	4203170E+00	-2766961E-02	-.67	1
657	4460000E+00	4509021E+00	-4902118E-02	-1.09	1
658	4797000E+00	4834517E+00	-3753728E-02	-.78	1
659	5273000E+00	5179586E+00	9341374E-02	1.80	1
660	5343000E+00	5250860E+00	9213954E-02	1.75	1
661	3172000E+00	3175167E+00	-3167340E-03	-.10	1
662	3511000E+00	3522216E+00	-1121630E-02	-.32	1
663	3832000E+00	3785402E+00	4659837E-02	1.23	1
664	4074000E+00	4068824E+00	5176460E-03	.13	1
665	4343000E+00	4375976E+00	-3297633E-02	-.75	1
666	4667000E+00	4706553E+00	-3955267E-02	-.84	1
667	5107000E+00	5059580E+00	4742015E-02	.94	1
668	5166000E+00	5132788E+00	3321404E-02	1.23	1
669	5286000E+00	5206838E+00	7916053E-02	1.52	1
670	3270000E+00	3258422E+00	1158203E-02	.36	1
671	3621000E+00	3668667E+00	-4766727E-02	-1.30	1
672	3975000E+00	3954227E+00	2077255E-02	.53	1
673	4247000E+00	4263520E+00	-1652893E-02	-.39	1
674	4562000E+00	4599795E+00	-3779539E-02	-.82	1
675	4940000E+00	4962433E+00	-2243293E-02	-.45	1
676	5029000E+00	5038021E+00	-9021059E-03	-.18	1
677	2648000E+00	2702749E+00	-5478202E-02	-2.03	1
678	2898000E+00	2922058E+00	-2405888E-02	-.82	1
679	3133000E+00	3099423E+00	3357738E-02	1.09	1
680	3333000E+00	3294524E+00	3847610E-02	1.17	1
681	3508000E+00	3508413E+00	-4133619E-04	-.01	1
682	3722000E+00	3740291E+00	-1829118E-02	-.49	1
683	3984000E+00	3989157E+00	-515674E-02	-.13	1
684	4242000E+00	4254071E+00	-1207088E-02	-.28	1
685	4510000E+00	4534199E+00	-2419899E-02	-.53	1
686	4574000E+00	4551844E+00	2219800E-02	.49	1
687	2750000E+00	2764860E+00	-1486028E-02	-.54	1
688	3019000E+00	3016598E+00	2401513E-03	.08	1
689	3259000E+00	3218761E+00	4022885E-02	1.25	1
690	3449000E+00	3440691E+00	8309294E-03	.24	1
691	3667000E+00	3683722E+00	-1672150E-02	-.45	1
692	3915000E+00	3947009E+00	-3200860E-02	-.81	1
693	4201000E+00	4229450E+00	-2845030E-02	-.67	1
694	4525000E+00	4530002E+00	-5001871E-03	-.11	1
695	4599000E+00	4592201E+00	67201264E-03	.07	1
696	2713000E+00	2755895E+00	-4266280E-02	-.46	1
697	3054000E+00	3080675E+00	-2647778E-02	-.81	1
698	3312000E+00	3273032E+00	3896799E-02	1.19	1
699	3517000E+00	3506352E+00	1060821E-02	.30	1
700	3749000E+00	3761950E+00	-1295042E-02	-.34	1

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
701	4014000E+00	4038817E+00	-2481717E-02	-.61	1
702	4317000E+00	4325832E+00	-883200E-02	-.20	1
703	4480000E+00	4397554E+00	822456E-02	.18	1
704	4648000E+00	4660029E+00	-120232E-02	-.27	1
705	4517000E+00	4523250E+00	-6249753E-03	-.14	1
706	2865000E+00	2842870E+00	2219995E-03	.07	1
707	3150000E+00	3149260E+00	7400523E-04	.02	1
708	3425000E+00	3380660E+00	4434032E-02	1.31	1
709	3654000E+00	3635149E+00	1885144E-02	.52	1
710	3914000E+00	3914106E+00	-1057574E-04	-.00	1
711	4209000E+00	4216497E+00	-7497280E-03	-.18	1
712	4274000E+00	4279673E+00	-5672624E-03	-.13	1
713	4399000E+00	4343723E+00	5552798E-03	.11	1
714	4405000E+00	4408638E+00	-3637792E-03	-.08	1
715	2987000E+00	2962936E+00	2406375E-02	.81	1
716	3299000E+00	3272512E+00	2648752E-02	.81	1
717	3571000E+00	3526287E+00	4471295E-02	1.27	1
718	3831000E+00	3806457E+00	2434349E-02	.64	1
719	4118000E+00	4114726E+00	3273626E-03	.08	1
720	4178000E+00	4179556E+00	-1555999E-03	-.04	1
721	4240000E+00	4245429E+00	-5428603E-03	-.13	1
722	4307000E+00	4312332E+00	-5331605E-03	-.12	1
723	2515000E+00	2532875E+00	-1787525E-02	-.74	1
724	2724000E+00	2704584E+00	1941597E-02	.72	1
725	2987000E+00	2856838E+00	1064256E-02	.35	1
726	3021000E+00	3028537E+00	-7536877E-03	-.20	1
727	3212000E+00	3221678E+00	-9677770E-03	-.30	1
728	3417000E+00	3431952E+00	-1495190E-02	-.44	1
729	3645000E+00	3659080E+00	-1408000E-02	-.38	1
730	3915000E+00	3901977E+00	1302230E-02	.33	1
731	3965000E+00	3952265E+00	1282502E-02	.22	1
732	4015000E+00	4003340E+00	1165975E-02	.29	1
733	4099000E+00	4064895E+00	3401093E-02	.83	1
734	4125000E+00	4107028E+00	1787377E-02	.44	1
735	4184000E+00	4159725E+00	2427534E-02	.59	1
736	2572000E+00	2581205E+00	-9205349E-03	-.36	1
737	2799000E+00	2784233E+00	14676731E-02	.53	1
738	2977000E+00	2961395E+00	1560479E-02	.53	1
739	3162000E+00	3160823E+00	1177154E-03	.07	1
740	3372000E+00	3382105E+00	-1010497E-02	-.30	1
741	3606000E+00	3623788E+00	-1778838E-02	-.49	1
742	3880000E+00	3884493E+00	-4492621E-03	-.12	1
743	3940000E+00	3928808E+00	1112113E-02	.03	1
744	4002000E+00	3983877E+00	1810933E-02	.45	1
745	4066000E+00	4048942E+00	1765792E-02	.41	1
746	4131000E+00	4105945E+00	2505544E-02	.61	1
747	4604000E+00	4609345E+00	-5384759E-03	-.12	1
748	2838000E+00	2825283E+00	1271645E-02	.45	1
749	3038000E+00	3012841E+00	2515947E-02	.77	1
750	3232000E+00	3223698E+00	8301802E-03	.29	1

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
751	.3451000E+00	.3457500E+00	-.6508250E-03	-.18	1
752	.3704000E+00	.3712771E+00	-.8771317E-03	-.24	1
753	.3898000E+00	.3888049E+00	.9951217E-03	.25	1
754	.4062000E+00	.4045293E+00	.1660713E-02	.41	1
755	.2669000E+00	.2678555E+00	-.9554510E-03	-.36	1
756	.2922000E+00	.2916234E+00	.5666454E-03	.19	1
757	.3157000E+00	.3122733E+00	.3426688E-02	1.10	1
758	.3369000E+00	.3354720E+00	.1427991E-02	.43	1
759	.3613000E+00	.3611928E+00	.1071376E-03	.03	1
760	.3897000E+00	.3892716E+00	.4283546E-03	.11	1
761	.3558000E+00	.3551561E+00	.6439020E-03	.16	1
762	.2765000E+00	.2795542E+00	-.3054246E-02	-1.09	1
763	.3034000E+00	.3058508E+00	-.2250781E-02	-.74	1
764	.3299000E+00	.3285282E+00	.1271777E-02	.42	1
765	.3538000E+00	.3543150E+00	-.5149773E-03	-.15	1
766	.3595000E+00	.3598198E+00	-.3197625E-03	-.09	1
767	.3647000E+00	.3654270E+00	-.7269711E-03	-.20	1
768	.3701000E+00	.3711650E+00	-.1065000E-02	-.29	1
769	.3757000E+00	.3770022E+00	-.1302240E-02	-.35	1
770	.3814000E+00	.3829471E+00	-.1547097E-02	-.40	1

FRIDAY, JUL 2, 1976

MAXIMUM RESIDUAL (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
576	.5211000E+00	.5040832E+00	.1701479E-01	3.38	1

NADC-77036-30

FRIDAY, JUL 2, 1978

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
1	.3265000E+00	.3115803E+00	.1481571E-01	4.79
2	.3438000E+00	.3246296E+00	.8970352E-02	2.68
3	.3605000E+00	.3572679E+00	.3232067E-02	.90
4	.3802000E+00	.3801138E+00	.8619209E-04	.02
5	.4021000E+00	.4064744E+00	-.4274432E-02	-1.08
6	.4315000E+00	.4251379E+00	.637855E-02	.84
7	.4661000E+00	.4658642E+00	.2357892E-02	.02
8	.5010000E+00	.4988272E+00	.2172758E-02	.44
9	.5415000E+00	.5336168E+00	.7883199E-02	1.48
10	.5818000E+00	.5407972E+00	.8302759E-02	1.54
11	.5504000E+00	.5480502E+00	.234881E-02	.43
12	.5501000E+00	.5553704E+00	-.5274889E-02	-.95
13	.5538000E+00	.5627708E+00	-.6170762E-02	-1.63
14	.5288000E+00	.5203332E+00	.8466757E-02	2.96
15	.5458000E+00	.5494603E+00	-.3660280E-02	-1.05
16	.5704000E+00	.5734996E+00	-.3099570E-02	-.82
17	.5989000E+00	.6001141E+00	-.1214110E-02	-.30
18	.6286000E+00	.6293807E+00	-.7092792E-03	-.05
19	.6608000E+00	.6611965E+00	-.3865211E-03	-.09
20	.6932000E+00	.6953816E+00	-.2183360E-03	-.04
21	.5400000E+00	.5318892E+00	.819868E-01	2.28
22	.5491000E+00	.5387531E+00	.9746882E-03	1.81
23	.5499000E+00	.5468809E+00	.2918102E-02	.53
24	.5499000E+00	.5546918E+00	-.4791795E-02	-.86
25	.5549000E+00	.5624850E+00	-.7584875E-02	-1.35
26	.5320000E+00	.5257624E+00	.6237648E-02	1.91
27	.5515000E+00	.5533257E+00	-.1825674E-02	-.52
28	.5814000E+00	.5812588E+00	.1411544E-03	.04
29	.6114000E+00	.6090162E+00	.238811E-02	.58
30	.6405000E+00	.6395450E+00	.1055042E-02	.24
31	.6730000E+00	.6722881E+00	.7019188E-03	.15
32	.5128000E+00	.5083489E+00	.4451067E-02	.88
33	.5489000E+00	.5483263E+00	.573686E-02	.65
34	.5510000E+00	.5541908E+00	-.3190846E-02	-.58
35	.5561000E+00	.5621429E+00	-.6042877E-02	-1.07
36	.5453000E+00	.5368458E+00	.8454194E-02	2.51
37	.5728000E+00	.5694550E+00	.3345022E-02	.91
38	.6011000E+00	.5964171E+00	.4682882E-02	1.18
39	.6282000E+00	.6262844E+00	.1915621E-02	.45
40	.6568000E+00	.6581488E+00	-.1348786E-02	-.51
41	.6841000E+00	.6948589E+00	-.1588244E-03	-.15
42	.5441000E+00	.5332452E+00	.1085484E-01	2.04
43	.5490000E+00	.5412296E+00	.7770358E-02	1.44
44	.5503000E+00	.5493138E+00	.9862113E-03	.18
45	.5618000E+00	.5524002E+00	.9399819E-02	2.67
46	.5895000E+00	.5876612E+00	.1838837E-02	.47
47	.6200000E+00	.6190978E+00	.9022477E-03	.22
48	.6440000E+00	.6437276E+00	.2724296E-03	.06
49	.6850000E+00	.6847345E+00	.2655433E-03	.05
50	.5252000E+00	.5236379E+00	.1562059E-02	.30

FRIDAY, JUL 2, 1978

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
51	.5353000E+00	.5317780E+00	.3521854E-02	.66
52	.2986000E+00	.2928315E+00	.5768512E-02	1.87
53	.3170000E+00	.3158508E+00	.1149248E-02	.36
54	.3345000E+00	.3355070E+00	-.1007038E-02	-.30
55	.3545000E+00	.3555713E+00	-.1071294E-02	-.30
56	.3818000E+00	.3818115E+00	-.1145891E-04	-.00
57	.4818000E+00	.48821175E+00	-.6425433E-03	-.18
58	.4375000E+00	.4379268E+00	-.4260077E-03	-.10
59	.4667000E+00	.4673471E+00	-.6471156E-03	-.14
60	.4960000E+00	.4996383E+00	-.3639332E-02	-.73
61	.5029000E+00	.5062073E+00	-.3407324E-02	-.67
62	.5100000E+00	.5130435E+00	-.3043542E-02	-.59
63	.5183000E+00	.5198473E+00	-.1547327E-02	-.30
64	.5038000E+00	.5026538E+00	.1162102E-03	.31
65	.5272000E+00	.5289143E+00	-.1714253E-02	-.52
66	.5527000E+00	.5510549E+00	.1645062E-02	.47
67	.5786000E+00	.5757274E+00	.2878551E-02	.55
68	.6018000E+00	.6029606E+00	-.1160618E-02	-.28
69	.6279000E+00	.6326090E+00	-.4708887E-02	-1.09
70	.6579000E+00	.6645211E+00	-.6621088E-02	-1.43
71	.6978000E+00	.6985621E+00	-.7420561E-03	-.15
72	.5044000E+00	.5056151E+00	-.1215137E-02	-.24
73	.5117000E+00	.5127478E+00	-.1047783E-02	-.20
74	.5128000E+00	.5072220E+00	.5578026E-02	1.82
75	.5360000E+00	.5347727E+00	.1227332E-02	.27
76	.5615000E+00	.5579533E+00	.3546714E-02	.99
77	.5946000E+00	.5937696E+00	.8315987E-03	.16
78	.6101000E+00	.6122558E+00	-.2152928E-02	-.32
79	.6384000E+00	.6432583E+00	-.4858282E-02	-1.10
80	.6719000E+00	.6768275E+00	-.4727458E-02	-.89
81	.6802000E+00	.6835719E+00	-.3371942E-02	-.70
82	.6891000E+00	.6906042E+00	-.1504235E-02	-.31
83	.6979000E+00	.6977232E+00	.1786609E-03	.04
84	.5061000E+00	.5049283E+00	.1171718E-02	.23
85	.5132000E+00	.5122181E+00	.9918802E-03	.19
86	.5260000E+00	.5197137E+00	.6284270E-02	1.97
87	.5475000E+00	.5464243E+00	.1073087E-03	.28
88	.5727000E+00	.5712888E+00	.1410176E-02	.38
89	.5970000E+00	.5962151E+00	.7846418E-03	.12
90	.6267000E+00	.6300360E+00	-.336023E-02	-.78
91	.6596000E+00	.6635887E+00	-.3988688E-02	-.86
92	.6870000E+00	.6706117E+00	.1611675E-02	.77
93	.6741000E+00	.6777357E+00	-.3635732E-02	-.76
94	.6822000E+00	.6849596E+00	-.2758605E-02	-.57
95	.6912000E+00	.6922821E+00	-.1082074E-02	-.22
96	.5012000E+00	.4997020E+00	.1498045E-02	.30
97	.5384000E+00	.5293717E+00	.9028293E-02	2.74
98	.5635000E+00	.5616241E+00	.1865778E-02	.24
99	.5900000E+00	.5887284E+00	.1270618E-02	.33
100	.6170000E+00	.6192340E+00	-.2132890E-02	-.33

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
101	.4491000E+00	.4529553E+00	-.3855332E-02	-.85
102	.4558000E+00	.4600690E+00	-.426049E-02	-.93
103	.4634000E+00	.4673021E+00	-.3902095E-02	-.84
104	.4712000E+00	.4748528E+00	-.3652872E-02	-.73
105	.4791000E+00	.4821188E+00	-.3019812E-02	-.63
106	.4871000E+00	.4894702E+00	-.2301501E-02	-.47
107	.4951000E+00	.4961084E+00	-.1016488E-02	-.25
108	.5031000E+00	.5015112E+00	.1598817E-02	.109
109	.5111000E+00	.5205480E+00	.2552001E-02	.80
110	.5191000E+00	.5417655E+00	.1654802E-02	-.05
111	.5271000E+00	.5650764E+00	.1576350E-02	-.43
112	.5351000E+00	.5903218E+00	.1421796E-02	-.36
113	.5431000E+00	.6173708E+00	.1229176E-02	-.29
114	.5511000E+00	.6422871E+00	.8128604E-03	-.19
115	.5591000E+00	.6686704E+00	.7295585E-03	-.17
116	.5671000E+00	.6944199E+00	.7801479E-03	-.18
117	.5751000E+00	.7202348E+00	.8652417E-03	-.20
118	.5831000E+00	.7461144E+00	.1185590E-02	.27
119	.5911000E+00	.7746377E+00	.3782325E-02	1.37
120	.6000000E+00	.8055171E+00	.4482926E-02	1.52
121	.6080000E+00	.8345043E+00	.2295696E-02	.73
122	.6160000E+00	.861264E+00	.1736063E-02	.05
123	.6240000E+00	.8902599E+00	.1859861E-02	-.52
124	.6320000E+00	.9267131E+00	.2813108E-02	-.75
125	.6400000E+00	.9652173E+00	.1517313E-02	-.37
126	.6480000E+00	.1002834E+00	.7933859E-03	-.18
127	.6560000E+00	.1042288E+00	.2287519E-03	-.05
128	.6640000E+00	.1084524E+00	.3475745E-03	-.08
129	.6720000E+00	.1136535E+00	.1346518E-02	.31
130	.6800000E+00	.1198310E+00	.2869013E-02	.64
131	.6880000E+00	.1269889E+00	.3711094E-02	1.32
132	.6960000E+00	.1340271E+00	.4928904E-02	1.64
133	.7040000E+00	.1420293E+00	.2601741E-02	.81
134	.7120000E+00	.1500632E+00	.1368474E-02	.04
135	.7200000E+00	.1584488E+00	.1448778E-02	-.39
136	.7280000E+00	.1682590E+00	.1959020E-02	-.48
137	.7360000E+00	.1783135E+00	.4192891E-02	-.10
138	.7440000E+00	.1885800E+00	.1120250E-02	.03
139	.7520000E+00	.1990397E+00	.6603443E-03	.15
140	.7600000E+00	.2093784E+00	.4821566E-02	1.72
141	.7680000E+00	.2207400E+00	.2860031E-02	.92
142	.7760000E+00	.2316500E+00	.2849533E-02	.86
143	.7840000E+00	.2435249E+00	.9751411E-03	.27
144	.7920000E+00	.2542461E+00	.2538782E-03	.07
145	.8000000E+00	.2646037E+00	.6862349E-03	.17
146	.8080000E+00	.2746744E+00	.8255836E-03	.15
147	.8160000E+00	.2844416E+00	.8583556E-03	.20
148	.8240000E+00	.2939427E+00	.6057287E-02	2.05
149	.8320000E+00	.3026241E+00	.2375836E-02	.74
150	.8400000E+00	.3116759E+00	.2834132E-02	.82

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
151	.8480000E+00	.3242201E+00	.1779945E-02	.48
152	.8560000E+00	.3404841E+00	.1658304E-02	.41
153	.8640000E+00	.3513248E+00	.1275185E-02	.31
154	.8720000E+00	.3587266E+00	.1273443E-02	.51
155	.8800000E+00	.3634521E+00	.1246863E-02	.47
156	.8880000E+00	.3776608E+00	.5391446E-03	.19
157	.8960000E+00	.3946588E+00	.7587617E-03	-.26
158	.9040000E+00	.4140928E+00	.2492788E-02	-.79
159	.9120000E+00	.4357015E+00	.1701524E-02	-.51
160	.9200000E+00	.4592899E+00	.1589916E-02	-.44
161	.9280000E+00	.4847065E+00	.1093521E-02	.28
162	.9360000E+00	.5099980E+00	.8019532E-03	.21
163	.9440000E+00	.5353569E+00	.8430530E-03	.21
164	.9520000E+00	.5607226E+00	.1117648E-02	.28
165	.9600000E+00	.5854120E+00	.2698050E-02	.81
166	.9680000E+00	.6123707E+00	.1020272E-02	.37
167	.9760000E+00	.6390718E+00	.6281562E-03	.22
168	.9840000E+00	.6687550E+00	.4550243E-03	.15
169	.9920000E+00	.7011050E+00	.1305036E-02	-.39
170	.1000000E+00	.7358561E+00	.1956149E-02	-.55
171	.1008000E+00	.7828032E+00	.6032008E-03	-.16
172	.1016000E+00	.8384414E+00	.4140207E-04	-.01
173	.1024000E+00	.8941596E+00	.6403610E-03	.16
174	.1032000E+00	.9598466E+00	.2205370E-02	.88
175	.1040000E+00	.1027852E+00	.1447561E-02	.52
176	.1048000E+00	.1045847E+00	.1015311E-02	.34
177	.1056000E+00	.1154107E+00	.5893278E-03	.19
178	.1064000E+00	.1239012E+00	.8128421E-03	-.24
179	.1072000E+00	.1351210E+00	.1220951E-02	-.33
180	.1080000E+00	.1470623E+00	.1023875E-02	-.28
181	.1088000E+00	.1582170E+00	.8170173E-03	-.22
182	.1096000E+00	.1699990E+00	.3889891E-03	-.10
183	.1104000E+00	.1826889E+00	.1315271E-02	.03
184	.1112000E+00	.1970988E+00	.2001532E-02	.75
185	.1120000E+00	.2054894E+00	.2151619E-02	.75
186	.1128000E+00	.2061633E+00	.2136653E-02	.70
187	.1136000E+00	.2290982E+00	.1300751E-02	.40
188	.1144000E+00	.2550271E+00	.3705634E-04	-.01
189	.1152000E+00	.2605587E+00	.5869163E-04	-.02
190	.1160000E+00	.2661869E+00	.8887571E-04	-.02
191	.1168000E+00	.2719197E+00	.1874037E-04	-.01
192	.1176000E+00	.2777555E+00	.1444961E-03	.04
193	.1184000E+00	.2815412E+00	.5584501E-03	.20
194	.1192000E+00	.3011207E+00	.2179277E-02	.72
195	.1200000E+00	.3228741E+00	.6258867E-03	.20
196	.1208000E+00	.3484827E+00	.7828801E-03	.22
197	.1216000E+00	.3539955E+00	.1095504E-02	-.31
198	.1224000E+00	.3596382E+00	.1238287E-02	-.34
199	.1232000E+00	.3654084E+00	.1308420E-02	-.36
200	.1240000E+00	.3694602E+00	.2387693E-03	.08

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
201	.3284000E+00	.3257072E+00	.2692846E-02	.83
202	.3476000E+00	.3440547E+00	.3543301E-02	.45
203	.3715000E+00	.3725892E+00	-.1069179E-02	-.29
204	.3930000E+00	.3967088E+00	-.3708766E-02	-.93
205	.4240000E+00	.4271334E+00	-.3133381E-02	-.73
206	.4592000E+00	.4586574E+00	.5425640E-03	.12
207	.4919000E+00	.4933128E+00	-.1412839E-02	-.25
208	.5292000E+00	.5302091E+00	-.1009106E-02	-.19
209	.5419000E+00	.5378458E+00	.4054232E-02	.75
210	.5488000E+00	.5455440E+00	.3233866E-02	.59
211	.5488000E+00	.5533680E+00	-.3569021E-02	-.64
212	.3094000E+00	.3180095E+00	-.8609478E-02	-2.71
213	.3344000E+00	.3414976E+00	-.7097599E-02	-2.09
214	.3620000E+00	.3643315E+00	-.2331542E-02	-.64
215	.3920000E+00	.3907923E+00	.1207720E-02	.31
216	.4220000E+00	.4205849E+00	.1415132E-02	.34
217	.4503000E+00	.4534128E+00	-.3112829E-02	-.69
218	.4854000E+00	.4880347E+00	-.2634675E-02	-.74
219	.5225000E+00	.5272547E+00	-.3245276E-02	-.98
220	.5439000E+00	.5351958E+00	.8704171E-02	1.63
221	.5494000E+00	.5432332E+00	.6166821E-02	1.14
222	.5502000E+00	.5513657E+00	-.1165660E-02	-.21
223	.3174000E+00	.3238065E+00	-.6406452E-02	-1.98
224	.3455000E+00	.3485848E+00	-.3084804E-02	-.88
225	.3743000E+00	.3724587E+00	.1841320E-02	.49
226	.4040000E+00	.4000622E+00	.3937778E-02	.98
227	.4350000E+00	.4342317E+00	.7683300E-03	.18
228	.4650000E+00	.4687070E+00	-.3701883E-02	-.78
229	.5024000E+00	.5023698E+00	.3016444E-03	.05
230	.5495000E+00	.5421366E+00	.7380422E-02	1.36
231	.5488000E+00	.5504014E+00	-.6014202E-03	-.11
232	.3364000E+00	.3354824E+00	.9175635E-03	.27
233	.3647000E+00	.3624527E+00	.2247307E-02	.62
234	.3935000E+00	.3882095E+00	.5290516E-02	1.36
235	.4180000E+00	.4153021E+00	.2697918E-02	.65
236	.4480000E+00	.4475614E+00	.4385848E-03	.10
237	.4892000E+00	.4880356E+00	.1164413E-02	.24
238	.4970000E+00	.4957604E+00	.1238633E-02	.25
239	.5088000E+00	.5002606E+00	.8521212E-02	.63
240	.5156000E+00	.5115731E+00	.4028914E-02	.79
241	.5257000E+00	.5186576E+00	.6042434E-02	1.16
242	.5361000E+00	.5278586E+00	.8241401E-02	1.56
243	.3532000E+00	.3515973E+00	.1602707E-02	.46
244	.3807000E+00	.3808874E+00	-.873661E-03	-.05
245	.4070000E+00	.4088759E+00	-.1875884E-02	-.46
246	.4382000E+00	.4411687E+00	-.2966719E-02	-.67
247	.4759000E+00	.4774455E+00	-.1546481E-02	-.32
248	.4854000E+00	.4851530E+00	.2470362E-03	.05
249	.4939000E+00	.4929966E+00	.9004770E-03	.19
250	.5022000E+00	.5009870E+00	.1213025E-02	.24

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
251	.5102000E+00	.5091128E+00	.1087121E-02	.23
252	.5189000E+00	.5173751E+00	.1524874E-02	.29
253	.2948000E+00	.2886095E+00	.6189502E-02	1.66
254	.3048000E+00	.3076066E+00	-.2808616E-02	-.91
255	.3275000E+00	.3287116E+00	-.1214831E-02	-.34
256	.3474000E+00	.3475700E+00	-.1700144E-03	-.05
257	.3734000E+00	.3720009E+00	.1399059E-02	.38
258	.3985000E+00	.3990157E+00	-.5154597E-03	-.13
259	.4281000E+00	.4283979E+00	-.2297892E-02	-.54
260	.4578000E+00	.4615215E+00	-.3631547E-02	-.79
261	.4896000E+00	.4936095E+00	-.4008470E-02	-.81
262	.4965000E+00	.5005710E+00	-.4071047E-02	-.81
263	.2948000E+00	.3003916E+00	-.5591619E-02	-1.86
264	.3197000E+00	.3216319E+00	-.1931930E-02	-.60
265	.3445000E+00	.3425088E+00	.1993210E-02	.58
266	.3664000E+00	.3667630E+00	-.3630003E-03	-.10
267	.3913000E+00	.3941099E+00	-.2809912E-02	-.71
268	.4213000E+00	.4242670E+00	-.2967009E-02	-.70
269	.4521000E+00	.4570080E+00	-.4908001E-02	-1.07
270	.4912000E+00	.4921503E+00	-.950345E-03	-.19
271	.4981000E+00	.4984532E+00	-.353289E-02	-.27
272	.3015000E+00	.3053277E+00	-.3827666E-02	-1.25
273	.3289000E+00	.3278992E+00	.9502092E-03	.29
274	.3505000E+00	.3487506E+00	.1769965E-02	.51
275	.3738000E+00	.3751790E+00	-.1372016E-02	-.42
276	.4019000E+00	.4027711E+00	-.871088E-03	-.46
277	.4310000E+00	.4352852E+00	-.4285177E-02	-.98
278	.4652000E+00	.4694822E+00	-.4282234E-02	-.91
279	.4732000E+00	.4766264E+00	-.3426415E-02	-.72
280	.4816000E+00	.4838690E+00	-.2268962E-02	-.47
281	.4901000E+00	.4912086E+00	-.1108600E-02	-.23
282	.3116000E+00	.3151819E+00	-.3581917E-02	-1.14
283	.3365000E+00	.3399044E+00	-.3404364E-02	-.90
284	.3632000E+00	.3637021E+00	-.506723E-03	-.11
285	.3908000E+00	.3912110E+00	-.4110049E-03	-.08
286	.4193000E+00	.4221457E+00	-.2845713E-02	-.63
287	.4522000E+00	.4562071E+00	-.4007105E-02	-.88
288	.4897000E+00	.4932721E+00	-.3572044E-02	-.78
289	.4878000E+00	.4706504E+00	.17030382E-02	.65
290	.4760000E+00	.4780404E+00	-.2040404E-02	-.43
291	.3263000E+00	.3286304E+00	-.2330413E-02	-.71
292	.3532000E+00	.3556727E+00	-.2372677E-02	-.67
293	.3810000E+00	.3817021E+00	-.7021112E-03	-.18
294	.4100000E+00	.4117904E+00	-.1790419E-02	-.43
295	.4418000E+00	.444231E+00	-.2435964E-02	-.56
296	.4490000E+00	.4521122E+00	-.312117E-02	-.69
297	.4545000E+00	.4601334E+00	-.563387E-02	-.79
298	.2613000E+00	.2643714E+00	-.3071354E-02	-1.16
299	.2799000E+00	.2776786E+00	.2212974E-03	.12
300	.2955000E+00	.2929393E+00	.2560718E-02	.87

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
301	-3128000E+00	-3112994E+00	-1500630E-02	.48
302	-3331000E+00	-3323498E+00	-7541856E-03	.23
303	-3547000E+00	-3557831E+00	-1083058E-02	-.20
304	-3806000E+00	-3813830E+00	-7929944E-03	-.21
305	-4117000E+00	-4090072E+00	-2692799E-02	.66
306	-4171000E+00	-4147582E+00	-2341776E-02	.56
307	-4230000E+00	-4205830E+00	-2417001E-02	.57
308	-4282000E+00	-4264806E+00	-1719388E-02	.64
309	-4356000E+00	-4328502E+00	-2748200E-02	.73
310	-2711000E+00	-2724887E+00	-139883E-02	-.51
311	-2892000E+00	-2880471E+00	-152802E-02	.05
312	-3076000E+00	-3067822E+00	-8077825E-03	.26
313	-3278000E+00	-3278376E+00	-3757807E-04	-.01
314	-3501000E+00	-3518000E+00	-1700009E-02	-.48
315	-3763000E+00	-3783786E+00	-2078631E-02	-.55
316	-4072000E+00	-4073483E+00	-1482256E-03	-.04
317	-4138000E+00	-4134123E+00	-4876677E-03	.12
318	-4212000E+00	-4195634E+00	-1636607E-02	.38
319	-4284000E+00	-4258003E+00	-2599880E-02	.61
320	-2745000E+00	-2763303E+00	-1830348E-02	-.68
321	-2956000E+00	-2941890E+00	-1430875E-02	.48
322	-3141000E+00	-3129540E+00	-1145864E-02	.37
323	-3351000E+00	-3351422E+00	-4220128E-04	-.01
324	-3590000E+00	-3603568E+00	-1358789E-02	-.38
325	-3874000E+00	-3882934E+00	-8934064E-03	-.23
326	-3936000E+00	-3941858E+00	-5858080E-03	-.15
327	-4000000E+00	-4001780E+00	-1758799E-03	-.04
328	-4086000E+00	-4062824E+00	-2378882E-03	.08
329	-4135000E+00	-4124826E+00	-1056411E-02	.26
330	-4205000E+00	-4187182E+00	-1781834E-02	.42
331	-2825000E+00	-2841988E+00	-1689848E-02	-.60
332	-3044000E+00	-3042304E+00	-1685659E-03	.06
333	-3265000E+00	-3248984E+00	-1601644E-02	.49
334	-3489000E+00	-3481964E+00	-7035600E-03	.20
335	-3773000E+00	-3767467E+00	-5533344E-03	.15
336	-3833000E+00	-3826176E+00	-6824309E-03	.18
337	-3885000E+00	-3888034E+00	-8985751E-03	.23
338	-3959000E+00	-3947022E+00	-1197828E-02	.30
339	-4029000E+00	-4008118E+00	-1888152E-02	.42
340	-4055000E+00	-4072306E+00	-2289416E-02	.56
341	-2929000E+00	-2953246E+00	-2424608E-02	-.82
342	-3172000E+00	-3176750E+00	-4750067E-03	.15
343	-3424000E+00	-3405747E+00	-1825341E-02	.54
344	-3691000E+00	-3674521E+00	-1647882E-02	.45
345	-3750000E+00	-3732887E+00	-1731284E-02	.46
346	-3811000E+00	-3792249E+00	-1875094E-02	.49
347	-3873000E+00	-3853178E+00	-1982215E-02	.51
348	-3970000E+00	-3915644E+00	-2155402E-02	.55
349	-2456000E+00	-2477510E+00	-2150951E-02	-.87
350	-2955000E+00	-2961047E+00	-6046723E-03	-.24

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
351	-2705000E+00	-2692897E+00	-1212251E-02	.45
352	-2863000E+00	-2860326E+00	-2664017E-03	.09
353	-3042000E+00	-3057047E+00	-1504720E-02	-.48
354	-3253000E+00	-3279168E+00	-2616832E-02	-.80
355	-3504000E+00	-3524070E+00	-1987016E-02	-.51
356	-3787000E+00	-3789803E+00	-7198585E-03	.19
357	-3849000E+00	-3845310E+00	-3689723E-03	.10
358	-3905000E+00	-3901578E+00	-3421902E-03	.09
359	-2521000E+00	-2543862E+00	-2296158E-02	-.90
360	-2651000E+00	-2659911E+00	-8910774E-03	.34
361	-2819000E+00	-2816576E+00	-2424475E-03	.09
362	-3009000E+00	-3010897E+00	-1886748E-03	-.06
363	-3228000E+00	-3236768E+00	-8767820E-03	-.27
364	-3472000E+00	-3490313E+00	-1831272E-02	-.52
365	-3741000E+00	-3768802E+00	-27802154E-03	-.21
366	-3824000E+00	-3877045E+00	-5303887E-03	.09
367	-2557000E+00	-2579497E+00	-2248701E-02	-.87
368	-2701000E+00	-2708319E+00	-7318511E-03	.27
369	-2881000E+00	-2875383E+00	-5617402E-03	.20
370	-3087000E+00	-3081132E+00	-5888141E-03	.19
371	-3323000E+00	-3319525E+00	-3475485E-03	.10
372	-3576000E+00	-3586639E+00	-1062936E-02	-.30
373	-3634000E+00	-3643250E+00	-9248800E-03	-.25
374	-3694000E+00	-3700877E+00	-8877260E-03	-.19
375	-3758000E+00	-3759304E+00	-1503848E-03	.09
376	-2634000E+00	-2680631E+00	-463072E-02	.18
377	-2807800E+00	-2811201E+00	-4201268E-03	.15
378	-3012000E+00	-3057095E+00	-4480550E-02	-.50
379	-3238000E+00	-3223943E+00	-1405705E-02	.44
380	-3490000E+00	-3485492E+00	-4308018E-03	.12
381	-3545000E+00	-3541849E+00	-3151230E-03	.09
382	-3602000E+00	-3599210E+00	-2790322E-03	.08
383	-2727000E+00	-2788561E+00	-6156077E-02	-.85
384	-2967000E+00	-2982529E+00	-4470513E-03	.15
385	-3173000E+00	-3170740E+00	-2260017E-03	.07
386	-3419000E+00	-3423825E+00	-4382178E-03	.13
387	-3475000E+00	-3478845E+00	-3845105E-03	.10
388	-2936000E+00	-2919529E+00	-1647099E-02	.56
389	-3129000E+00	-3129582E+00	-5816644E-04	-.02
390	-3347000E+00	-3339769E+00	-7230837E-03	.22
391	-3605000E+00	-3610157E+00	-5157224E-03	.14
392	-3864000E+00	-3862246E+00	-1753644E-03	.05
393	-4193000E+00	-4168285E+00	-2471495E-02	.59
394	-4488000E+00	-4500828E+00	-1282818E-02	.29
395	-4644000E+00	-4657978E+00	-1387757E-02	.29
396	-5174000E+00	-5238179E+00	-6417834E-02	-.81
397	-5259000E+00	-5316686E+00	-576601E-02	.10
398	-5401800E+00	-5386417E+00	-5582151E-03	.08
399	-3018000E+00	-3054620E+00	-3661862E-02	-.80
400	-3281000E+00	-3297084E+00	-1608428E-02	-.49

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
401	.3556000E+00	.3532116E+00	.2389427E-02	.68
402	.3846000E+00	.3804280E+00	.4171962E-02	1.10
403	.4131000E+00	.4110606E+00	.2039448E-02	.50
404	.4395000E+00	.4448068E+00	-.5306798E-02	-1.19
405	.4778000E+00	.4814199E+00	-.3619871E-02	-.75
406	.5189000E+00	.5206995E+00	-.1799456E-02	-.35
407	.5315000E+00	.5288603E+00	.2638892E-02	.50
408	.3108000E+00	.3118268E+00	-.8267993E-03	-.27
409	.3382000E+00	.3371635E+00	.1036506E-02	.31
410	.3866000E+00	.3817046E+00	.4892425E-02	1.35
411	.3954000E+00	.3906488E+00	.5394155E-02	1.37
412	.4210000E+00	.4203570E+00	.6430040E-03	.15
413	.4528000E+00	.4570538E+00	-.4253757E-02	-.93
414	.4953000E+00	.4961229E+00	-.1771051E-03	.04
415	.5054000E+00	.5030738E+00	.2326169E-02	.48
416	.5147000E+00	.5111338E+00	.3566395E-02	.70
417	.5232000E+00	.5183008E+00	.4898187E-02	.75
418	.5332000E+00	.5275741E+00	.5625896E-02	1.07
419	.3263000E+00	.3238953E+00	.2404684E-02	.74
420	.3538000E+00	.3516239E+00	.2160046E-02	.62
421	.3820000E+00	.3780499E+00	.3950098E-02	1.04
422	.4082000E+00	.4085191E+00	-.6809006E-03	-.17
423	.4405000E+00	.4427394E+00	-.2239408E-02	-.51
424	.4796000E+00	.4803900E+00	-.789511E-03	-.16
425	.4892000E+00	.4883073E+00	.8926991E-03	.18
426	.4992000E+00	.4963492E+00	.2850833E-02	.57
427	.5081000E+00	.5045137E+00	.3586253E-02	.71
428	.5176000E+00	.5127993E+00	.4800690E-02	.94
429	.3393000E+00	.3405707E+00	-.1270654E-02	-.37
430	.3683000E+00	.3706191E+00	-.2319079E-02	-.63
431	.3987000E+00	.3982768E+00	.4232072E-03	.11
432	.4302000E+00	.4323254E+00	-.2125355E-02	-.48
433	.4671000E+00	.4684460E+00	-.1346042E-02	-.30
434	.4761000E+00	.4773271E+00	-.1227099E-02	-.26
435	.4856000E+00	.4853544E+00	.2456243E-03	.05
436	.2747000E+00	.2765333E+00	-.1833326E-02	-.66
437	.2819000E+00	.2859096E+00	-.4009555E-02	-1.35
438	.3168000E+00	.3149087E+00	.1881257E-02	.60
439	.3400000E+00	.3369729E+00	.3027093E-02	.90
440	.3532000E+00	.3518413E+00	.1358474E-02	.38
441	.3879000E+00	.3884443E+00	-.5442512E-03	-.14
442	.4187000E+00	.4180267E+00	.6767156E-03	.08
443	.4523000E+00	.4509729E+00	.1327067E-02	.29
444	.4580000E+00	.4578115E+00	.1885495E-03	.08
445	.4641000E+00	.4643307E+00	-.2307089E-03	-.05
446	.4704000E+00	.4711298E+00	-.7287701E-03	-.15
447	.4770000E+00	.4780077E+00	-.1007727E-02	-.21
448	.4838000E+00	.4849637E+00	-.1163701E-02	-.24
449	.2864000E+00	.2882753E+00	-.1847351E-02	-.64
450	.3109000E+00	.3108927E+00	.7317071E-05	.00

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
451	.3341000E+00	.3323763E+00	.1723730E-02	.52
452	.3559000E+00	.3571257E+00	-.1225707E-02	-.34
453	.3820000E+00	.3849103E+00	-.2910311E-02	-.76
454	.4123000E+00	.4154723E+00	-.3172258E-02	-.76
455	.4452000E+00	.4485966E+00	-.3396638E-02	-.76
456	.4526000E+00	.4555128E+00	-.2912941E-02	-.64
457	.4601000E+00	.4625254E+00	-.2425360E-02	-.52
458	.4685000E+00	.4686267E+00	-.126893E-02	-.24
459	.4770000E+00	.4768218E+00	.1782202E-03	.04
460	.4855000E+00	.4841075E+00	.1392498E-02	.29
461	.2942000E+00	.2935792E+00	.6208246E-03	.21
462	.3178000E+00	.3174868E+00	.3131758E-03	.10
463	.3399000E+00	.3400103E+00	-.1103446E-03	-.03
464	.3645000E+00	.3659026E+00	-.1402586E-02	-.38
465	.3923000E+00	.3949393E+00	-.2639348E-02	-.67
466	.4233000E+00	.4268593E+00	-.3536900E-02	-.83
467	.4587000E+00	.4616287E+00	-.2738725E-02	-.59
468	.4648000E+00	.4686576E+00	-.3817649E-02	-.80
469	.4754000E+00	.4758744E+00	-.5743833E-03	-.12
470	.2028000E+00	.2040260E+00	-.1259959E-02	-.47
471	.3287000E+00	.3301255E+00	-.1425513E-02	-.43
472	.3546000E+00	.3545319E+00	.6805208E-04	.02
473	.3817000E+00	.3825341E+00	-.8241077E-03	-.22
474	.4125000E+00	.4139065E+00	-.1406508E-02	-.34
475	.4458000E+00	.4483728E+00	-.2572751E-02	-.62
476	.4532000E+00	.4556158E+00	-.2415895E-02	-.53
477	.3163000E+00	.3180346E+00	-.1736956E-02	-.55
478	.3437000E+00	.3464543E+00	-.2734307E-02	-.79
479	.3730000E+00	.3730925E+00	-.9246825E-04	-.02
480	.4032000E+00	.4034740E+00	-.2740029E-03	-.12
481	.4091000E+00	.4102435E+00	-.1143537E-02	-.28
482	.4152000E+00	.4169581E+00	-.1750888E-02	-.42
483	.4216000E+00	.4238151E+00	-.2215112E-02	-.52
484	.4281000E+00	.4308121E+00	-.2712141E-02	-.63
485	.4351000E+00	.4379468E+00	-.2846790E-02	-.65
486	.2540000E+00	.2531575E+00	.8442499E-02	.81
487	.2880000E+00	.2875311E+00	.4689935E-02	.55
488	.2948000E+00	.2934241E+00	.1375856E-02	.48
489	.3034000E+00	.3021170E+00	.1262867E-02	.48
490	.3241000E+00	.3232184E+00	.8782612E-03	.24
491	.3444000E+00	.3467761E+00	-.2376132E-03	-.11
492	.3727000E+00	.3723051E+00	.3949477E-03	.11
493	.4048000E+00	.3997516E+00	.5022397E-02	1.21
494	.4104000E+00	.4054598E+00	.4940220E-02	1.22
495	.4164000E+00	.4112288E+00	.5161210E-02	1.30
496	.4232000E+00	.4170878E+00	.6112210E-02	1.47
497	.2623000E+00	.2612447E+00	.1055336E-02	.40
498	.2785000E+00	.2789546E+00	-.445156E-03	-.13
499	.2983000E+00	.2982369E+00	.6310635E-04	.02
500	.3187000E+00	.3198151E+00	-.1044449E-02	-.33

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
501	.3423000E+00	.3437304E+00	-.1430396E-02	-.42
502	.3687000E+00	.3703325E+00	-.1632517E-02	-.44
503	.4006000E+00	.3992202E+00	.1378003E-02	.35
504	.4078000E+00	.4052572E+00	.2542824E-02	.62
505	.4152000E+00	.4113779E+00	.3822137E-02	.92
506	.2667000E+00	.2654442E+00	.1255819E-02	.47
507	.2846000E+00	.2853492E+00	-.7491638E-03	-.26
508	.3053000E+00	.3047886E+00	.5334247E-03	.18
509	.3274000E+00	.3272875E+00	.1124589E-03	.03
510	.3515000E+00	.3526550E+00	-.1155040E-02	-.32
511	.3802000E+00	.3806142E+00	-.4141556E-03	-.11
512	.3865000E+00	.3864980E+00	.2007127E-05	.00
513	.3931000E+00	.3924756E+00	.6243556E-02	.16
514	.4000000E+00	.3985457E+00	.1454276E-02	.36
515	.2754000E+00	.2739662E+00	.1433786E-02	.55
516	.2853000E+00	.2860031E+00	-.7031017E-03	-.24
517	.3181000E+00	.3173034E+00	.796572E-02	.57
518	.3429000E+00	.3419342E+00	.9858978E-02	.28
519	.3704000E+00	.3696374E+00	.7625512E-02	.21
520	.3764000E+00	.3755232E+00	.8777823E-02	.23
521	.3826000E+00	.3815170E+00	.1082961E-02	.28
522	.3891000E+00	.3876201E+00	.1479920E-02	.38
523	.2668000E+00	.2655915E+00	.1208544E-02	.42
524	.3096000E+00	.3100082E+00	-.4081598E-03	-.13
525	.3356000E+00	.3335402E+00	.2059788E-02	.62
526	.3629000E+00	.3607505E+00	.2149528E-02	.60
527	.3688000E+00	.3661000E+00	.2700048E-02	.60
528	.3363000E+00	.3363396E+00	-.3943146E-04	-.04
529	.3471000E+00	.3467778E+00	.3224488E-03	.13
530	.2822000E+00	.2808085E+00	.1391459E-02	.53
531	.2788000E+00	.2782139E+00	.5861389E-03	.21
532	.2973000E+00	.2984460E+00	-.1146026E-02	-.38
533	.3187000E+00	.3211576E+00	-.2457639E-02	-.77
534	.3438000E+00	.3461041E+00	-.2304111E-02	-.67
535	.3733000E+00	.3731014E+00	.1986376E-03	.05
536	.3787000E+00	.3787336E+00	-.3361505E-04	-.01
537	.2429000E+00	.2440045E+00	-.1044523E-02	-.04
538	.2579000E+00	.2576238E+00	.2737701E-03	.16
539	.2743000E+00	.2741392E+00	.1608418E-03	.06
540	.2939000E+00	.2942288E+00	-.3297515E-03	-.11
541	.3165000E+00	.3173779E+00	-.8779025E-03	-.28
542	.3410000E+00	.3432319E+00	-.2231892E-02	-.65
543	.3464000E+00	.3487038E+00	-.2303768E-02	-.66
544	.3519000E+00	.3542718E+00	-.2371807E-02	-.67
545	.3577000E+00	.3599344E+00	-.2234393E-02	-.62
546	.3678000E+00	.3656900E+00	.21889988E-02	.52
547	.2478000E+00	.2475229E+00	.2726868E-04	.01
548	.2625000E+00	.2628344E+00	-.3324092E-03	-.13
549	.2808000E+00	.2803877E+00	.5122712E-03	.18
550	.2018000E+00	.2016211E+00	.1788740E-03	.08

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
551	.3254000E+00	.3260214E+00	-.6214354E-03	-.19
552	.3517000E+00	.3532324E+00	-.1532420E-02	-.42
553	.3575000E+00	.3589878E+00	-.1487765E-02	-.41
554	.2584000E+00	.2586118E+00	-.2117620E-03	-.08
555	.2736000E+00	.2737320E+00	-.1321744E-03	-.04
556	.2943000E+00	.2931515E+00	.1148548E-02	.39
557	.3178000E+00	.3184948E+00	-.6705233E-03	-.21
558	.3227000E+00	.3215842E+00	.1115847E-02	.35
559	.3278000E+00	.3268054E+00	.9945502E-02	.30
560	.3228000E+00	.3221556E+00	.6444476E-03	.19
561	.3379000E+00	.3376316E+00	.2684489E-03	.08
562	.3432000E+00	.3432307E+00	-.3071447E-04	-.01
563	.2675000E+00	.2699652E+00	-.2485249E-02	-.92
564	.2875000E+00	.2894063E+00	-.1906520E-02	-.66
565	.3115000E+00	.3110785E+00	.4235188E-03	.14
566	.3162000E+00	.3159402E+00	.2598137E-03	.08
567	.3211000E+00	.3208688E+00	.2312073E-03	.04
568	.3260000E+00	.3261577E+00	-.1576744E-03	-.05
569	.3154000E+00	.3120274E+00	.3372610E-02	1.14
570	.3465000E+00	.3454345E+00	.1065549E-02	.31
571	.3750000E+00	.3679785E+00	.7021460E-02	1.91
572	.3965000E+00	.3903955E+00	.6104549E-02	1.56
573	.4116000E+00	.4162401E+00	-.4640099E-02	-1.11
574	.4374000E+00	.4438814E+00	-.6481361E-02	-1.46
575	.4724000E+00	.4737104E+00	-.1309145E-02	-.03
576	.5211000E+00	.5043416E+00	.1675836E-01	2.32
577	.5474000E+00	.5370245E+00	.1037550E-01	1.92
578	.5496000E+00	.5437487E+00	.5851286E-02	1.08
579	.5902000E+00	.5905343E+00	-.3342032E-03	-.06
580	.5505000E+00	.5572808E+00	-.6880775E-02	-1.23
581	.5543000E+00	.5642877E+00	-.9987651E-02	-1.77
582	.5598000E+00	.5712546E+00	-.1145446E-01	-2.01
583	.3165000E+00	.3226570E+00	-.6157009E-02	-1.91
584	.3504000E+00	.3574230E+00	-.7022940E-02	-1.96
585	.3818000E+00	.3826676E+00	-.8675990E-03	-.22
586	.4050000E+00	.4094358E+00	-.4435939E-02	-1.08
587	.4358000E+00	.4381866E+00	-.2366574E-02	-.59
588	.4701000E+00	.4689802E+00	.1119787E-02	.24
589	.5100000E+00	.5017286E+00	.8271403E-02	1.65
590	.5482000E+00	.5263839E+00	.2183610E-01	2.21
591	.5495000E+00	.5435104E+00	.5989592E-02	1.10
592	.5500000E+00	.5507286E+00	-.7286174E-03	-.13
593	.5507000E+00	.5580179E+00	-.7317931E-02	-1.31
594	.5535000E+00	.5652778E+00	-.9877755E-02	-1.75
595	.5611000E+00	.5720075E+00	-.11070751E-01	-2.04
596	.5200000E+00	.5277182E+00	-.7714256E-02	-2.38
597	.5545000E+00	.5637744E+00	-.9274439E-02	-2.55
598	.3882000E+00	.3900580E+00	-.1858011E-02	-.48
599	.4170000E+00	.4179702E+00	-.9701551E-03	-.23
600	.4487000E+00	.4479829E+00	.7170521E-03	.16

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
601	.4808000E+00	.4801238E+00	.6764182E-03	.14
602	.5217000E+00	.5143280E+00	.7371968E-02	1.43
603	.5500000E+00	.5505130E+00	-.5130297E-03	-.09
604	.3509000E+00	.3579303E+00	-.7080272E-02	-1.27
605	.5588000E+00	.5655227E+00	-.6727331E-02	-1.58
606	.5829000E+00	.5731198E+00	.1029782E-01	1.79
607	.3548000E+00	.3582092E+00	-.3609176E-02	-1.07
608	.3707000E+00	.3764573E+00	-.5757263E-02	-1.53
609	.4078000E+00	.4046248E+00	.3175250E-02	.78
610	.4378000E+00	.4346458E+00	.3154187E-02	.73
611	.4672000E+00	.4669942E+00	.2057567E-03	.04
612	.5026000E+00	.5016822E+00	.9178218E-03	.18
613	.5488000E+00	.5386317E+00	.1016827E-01	1.89
614	.5489000E+00	.5462847E+00	.2615334E-02	.48
615	.5507000E+00	.5540235E+00	-.3323472E-02	-.60
616	.5547000E+00	.5518474E+00	.2847382E-02	.51
617	.5608000E+00	.5697558E+00	-.8956431E-02	-1.57
618	.3455000E+00	.3532031E+00	-.7703070E-02	-2.18
619	.3857000E+00	.3837710E+00	.0070973E-02	-.205
620	.4254000E+00	.4241702E+00	.1229813E-02	.29
621	.4555000E+00	.4535530E+00	.1946990E-02	.43
622	.4925000E+00	.4920194E+00	.4805676E-03	.10
623	.5342000E+00	.5299008E+00	.4299245E-02	.81
624	.5438000E+00	.5277845E+00	.16015544E-02	1.12
625	.5494000E+00	.5457685E+00	.3631476E-02	.67
626	.5501000E+00	.5538520E+00	-.3752034E-02	-.64
627	.2925000E+00	.2960535E+00	-.3553472E-02	-1.20
628	.3190000E+00	.3240928E+00	-.5092888E-02	-1.57
629	.3473000E+00	.3450150E+00	.2284999E-02	.66
630	.3665000E+00	.3649332E+00	.1566807E-02	.43
631	.3885000E+00	.3816220E+00	.68121979E-02	.80
632	.4140000E+00	.4189008E+00	-.4900891E-02	-1.17
633	.4415000E+00	.4453437E+00	-.3843694E-02	-.86
634	.4721000E+00	.4747187E+00	-.2618651E-02	-.55
635	.5086000E+00	.5056702E+00	.2990070E-03	.18
636	.5158000E+00	.5120436E+00	.3856399E-02	.75
637	.5240000E+00	.5184788E+00	.5523176E-02	1.07
638	.5315000E+00	.5249894E+00	.6530640E-02	1.24
639	.5385000E+00	.5315207E+00	.6979283E-02	1.31
640	.3005000E+00	.3049180E+00	-.4415861E-02	-1.45
641	.3310000E+00	.3261868E+00	.48186576E-02	1.55
642	.3601000E+00	.3596031E+00	.4968141E-03	.14
643	.3887000E+00	.3846919E+00	.4008102E-02	.52
644	.4112000E+00	.4118113E+00	-.6112231E-03	-.15
645	.4354000E+00	.4409510E+00	-.5550965E-02	-1.28
646	.4665000E+00	.4720342E+00	-.5534175E-02	-1.17
647	.5086000E+00	.5049738E+00	.3626222E-02	.72
648	.5182000E+00	.5117770E+00	.6423016E-02	1.26
649	.5259000E+00	.5196504E+00	.6249563E-02	1.40
650	.5328000E+00	.5255835E+00	.7206490E-02	1.37

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
651	.5402000E+00	.5326058E+00	.7594410E-02	1.43
652	.3082000E+00	.3091162E+00	-.9162612E-03	-.30
653	.3393000E+00	.3416871E+00	-.2387127E-02	-.70
654	.3698000E+00	.3661336E+00	.3766429E-02	1.03
655	.3959000E+00	.3923652E+00	.3524813E-02	.90
656	.4178000E+00	.4207368E+00	-.2916770E-02	-.75
657	.4460000E+00	.4512334E+00	-.5223407E-02	-1.16
658	.4797000E+00	.4821127E+00	-.2407268E-02	-.84
659	.5273000E+00	.5182620E+00	.9038022E-02	1.74
660	.5343000E+00	.5252859E+00	.9044078E-02	1.70
661	.3172000E+00	.3177855E+00	-.5654676E-03	-.18
662	.3511000E+00	.3525492E+00	-.1448218E-02	-.41
663	.4322000E+00	.4388776E+00	-.6624233E-02	-1.14
664	.4074000E+00	.4072191E+00	.1808885E-03	.04
665	.4243000E+00	.4278282E+00	-.3585332E-02	-.83
666	.4667000E+00	.4708703E+00	-.4270270E-02	-.91
667	.5107000E+00	.5062548E+00	.4445354E-02	.88
668	.5198000E+00	.5135711E+00	.6218908E-02	1.17
669	.5286000E+00	.5208721E+00	.7787877E-02	1.46
670	.3279000E+00	.3301120E+00	-.2213001E-02	-.84
671	.3621000E+00	.3671865E+00	-.5095588E-02	-1.39
672	.3875000E+00	.3857567E+00	.1742346E-02	.44
673	.4247000E+00	.4266776E+00	-.1977562E-02	-.46
674	.4562000E+00	.4602852E+00	-.4085161E-02	-.89
675	.4940000E+00	.4965225E+00	-.2522486E-02	-.51
676	.5029000E+00	.5040752E+00	-.1175232E-02	-.23
677	.2648000E+00	.2705689E+00	-.5768946E-02	-2.13
678	.2898000E+00	.2925381E+00	-.2738100E-02	-.94
679	.3133000E+00	.3102831E+00	.3016817E-02	.87
680	.3333000E+00	.3297966E+00	.3503272E-02	1.06
681	.3580000E+00	.3511851E+00	.6811480E-03	-.11
682	.3722000E+00	.3743696E+00	-.2169441E-02	-.58
683	.3864000E+00	.3892506E+00	-.2850598E-02	-.71
684	.4242000E+00	.4257344E+00	-.1534446E-02	-.36
685	.4810000E+00	.4827380E+00	-.1727967E-02	-.80
686	.4574000E+00	.4595144E+00	-.2114429E-02	-.46
687	.2750000E+00	.2767767E+00	-.1776857E-02	-.64
688	.3019000E+00	.3019870E+00	-.8700895E-04	-.03
689	.3259000E+00	.3222164E+00	.3683609E-02	1.14
690	.3449000E+00	.3444152E+00	.4847916E-03	.14
691	.3687000E+00	.3687171E+00	-.167132E-03	-.55
692	.3815000E+00	.3850466E+00	-.3546588E-02	-.90
693	.4201000E+00	.4222883E+00	-.2186301E-02	-.51
694	.4525000E+00	.4533348E+00	-.8347952E-03	-.18
695	.4889000E+00	.4895512E+00	-.651631E-03	-.14
696	.2783000E+00	.2798726E+00	-.1572584E-02	-.56
697	.3054000E+00	.3063732E+00	-.9731671E-03	-.32
698	.3312000E+00	.3278425E+00	.3357518E-02	1.09
699	.3517000E+00	.3509841E+00	.7158961E-03	.20
700	.3749000E+00	.3765408E+00	-.1640766E-02	-.44

NADC-77036-30

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
701	.4014000E+00	.4042246E+00	-.2824634E-02	-.70
702	.4317000E+00	.4339204E+00	-.2220414E-02	-.51
703	.4380000E+00	.4400912E+00	-.2091165E-02	-.48
704	.4446000E+00	.4463372E+00	-.1737152E-02	-.39
705	.4517000E+00	.4526576E+00	-.9575713E-03	-.21
706	.2865000E+00	.2865570E+00	-.5702017E-04	-.02
707	.3150000E+00	.3152495E+00	-.2495077E-03	-.08
708	.3425000E+00	.3434017E+00	-.908262E-02	1.21
709	.3654000E+00	.3678531E+00	-.1546722E-02	-.42
710	.3814000E+00	.3817458E+00	-.3455780E-03	-.09
711	.4209000E+00	.4219767E+00	-.1078746E-02	-.26
712	.4274000E+00	.4282922E+00	-.8922168E-03	-.21
713	.4339000E+00	.4346950E+00	-.7950271E-03	-.18
714	.4405000E+00	.4411842E+00	-.6841798E-03	-.16
715	.2987000E+00	.2985608E+00	.2139182E-02	.72
716	.3299000E+00	.3275731E+00	.2326879E-02	.71
717	.3571000E+00	.3529571E+00	.4142822E-02	1.17
718	.3831000E+00	.3809880E+00	.2112007E-02	.55
719	.4118000E+00	.4117807E+00	.1932835E-04	.00
720	.4178000E+00	.4182600E+00	-.4599408E-03	-.11
721	.4240000E+00	.4248433E+00	-.8433048E-03	-.20
722	.4307000E+00	.4315295E+00	-.8294537E-03	-.19
723	.2515000E+00	.2537022E+00	-.2202164E-02	-.87
724	.2724000E+00	.2708016E+00	.1598398E-02	.59
725	.2867000E+00	.2860250E+00	.6650385E-03	.23
726	.3021000E+00	.3032839E+00	-.1183825E-02	-.38
727	.3212000E+00	.3224809E+00	-.1280855E-02	-.40
728	.3417000E+00	.3434892E+00	-.1786215E-02	-.52
729	.3645000E+00	.3661728E+00	-.1672815E-02	-.46
730	.3815000E+00	.3804326E+00	.1067183E-02	.27
731	.3945000E+00	.3954651E+00	-.1034934E-02	-.26
732	.4015000E+00	.4005561E+00	.9439157E-03	.24
733	.4063000E+00	.4057050E+00	.1154968E-02	.29
734	.4125000E+00	.4109113E+00	.1588713E-02	.39
735	.4184000E+00	.4161742E+00	.2225752E-02	.53
736	.2572000E+00	.2584277E+00	-.1227743E-02	-.48
737	.2793000E+00	.2787684E+00	.1131621E-02	.41
738	.2977000E+00	.2964861E+00	.1212863E-02	.41
739	.3163000E+00	.3164204E+00	-.1203737E-03	-.04
740	.3372000E+00	.3385333E+00	-.1332900E-02	-.39
741	.3606000E+00	.3626810E+00	-.2081027E-02	-.57
742	.3880000E+00	.3887264E+00	-.7263865E-03	-.19
743	.3940000E+00	.3941524E+00	-.1524174E-03	-.04
744	.4002000E+00	.3996487E+00	.5513031E-03	.14
745	.4066000E+00	.4052144E+00	.1385607E-02	.34
746	.4131000E+00	.4108487E+00	.2251301E-02	.55
747	.2604000E+00	.2612426E+00	-.8425593E-03	-.32
748	.2838000E+00	.2828734E+00	.9285740E-03	.33
749	.3036000E+00	.3016311E+00	.1968882E-02	.65
750	.3233000E+00	.3227082E+00	.5918418E-03	.18

FRIDAY, JUL 2, 1976

TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
751	.3451000E+00	.3480732E+00	-.2972327E-02	-.88
752	.3704000E+00	.3715780E+00	-.1177965E-02	-.32
753	.3898000E+00	.3990794E+00	-.7208111E-03	-.18
754	.4062000E+00	.4048080E+00	.1391988E-02	.34
755	.2669000E+00	.2681539E+00	-.1253865E-02	-.47
756	.2922000E+00	.2919764E+00	.2233431E-03	.08
757	.3157000E+00	.3126172E+00	.3082757E-02	.99
758	.3369000E+00	.3358042E+00	.1095798E-02	.33
759	.3613000E+00	.3615049E+00	-.2049145E-03	-.06
760	.3897000E+00	.3895569E+00	.1430524E-03	.04
761	.3958000E+00	.3954354E+00	.3646446E-03	.09
762	.2785000E+00	.2798459E+00	-.1345907E-02	-.48
763	.3034000E+00	.3059885E+00	-.2588496E-02	-.85
764	.3299000E+00	.3288608E+00	.1039172E-02	.32
765	.3538000E+00	.3546272E+00	-.8271623E-03	-.23
766	.3595000E+00	.3601265E+00	-.6245018E-03	-.17
767	.3647000E+00	.3657379E+00	-.1017867E-02	-.28
768	.3701000E+00	.3714587E+00	-.1359674E-02	-.37
769	.3757000E+00	.3772903E+00	-.1590329E-02	-.42
770	.3814000E+00	.3832283E+00	-.1828252E-02	-.48

NADC-77036-30

FRIDAY, JUL 2, 1976

MAXIMUM RESIDUAL (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
576	.5211000E+00	.5043416E+00	.1675583E-01	3.32

FRIDAY, JUL 2, 1976

STANDARD DEVIATION (TOTAL) = .2348197741E-02

STANDARD DEVIATION (WITHIN) = .2326239423E-02

TREATMENT NO.	STANDARD DEVIATION (WITHIN)
1	.2803346997E-02
2	.1812706065E-02

AD-A115 652

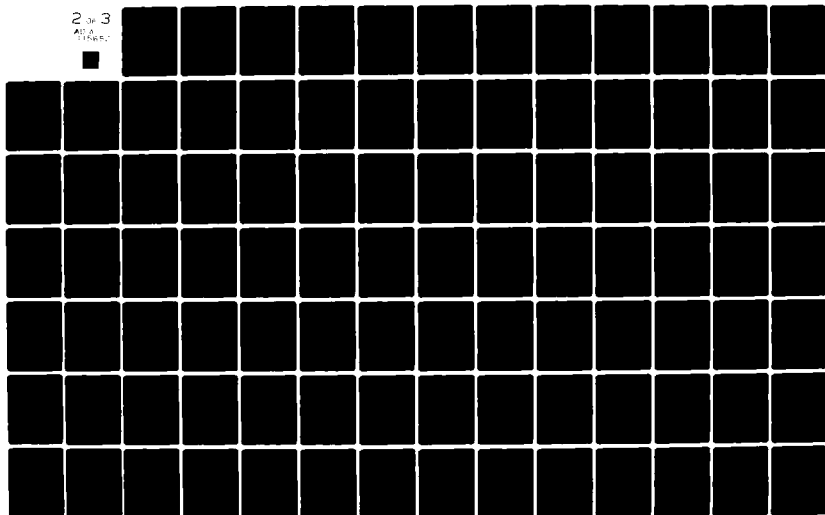
NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA SENSORS A--ETC F/G 12/1
ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATE--ETC(U)
APR 82 J J FRANZ

UNCLASSIFIED

NADC-77036-30

NL

2 of 3
AD-A
THREE



NADC-77036-30

FRIDAY, JUL 2, 1974

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER	1	2	3	4	5	6	7	8
1288872E-02	849481E-01	5000000E-02	5455455E-01	1081081E-00	4509465E-03	3430000E-03			
3779645E-000		2500000E-04	3247305E-010	0	8575000E-06	1889822E-02			
4123927E-010	0	0	4455303E-000	0	1715000E-050	0			
0	0	0	3285000E-00	0					
CASE NUMBER	2	GROUP NUMBER	1						
1535534E-00	1767767E-02	5000000E-02	3535534E-02	7071088E-00	1226306E-000	3430000E-03			
3779645E-000		2500000E-04	883835E-010	0	8575000E-06	1889822E-02			
2672612E-000	0	0	1212688E-010	0	1715000E-050	0			
0	0	0	3436000E-00	0					
CASE NUMBER	3	GROUP NUMBER	1						
1035926E-01	5179630E-02	5000000E-02	5059174E-02	1011835E-01	3515432E-000	3430000E-03			
3779645E-000		2500000E-04	2599815E-040	0	8575000E-06	1889822E-02			
3824376E-000	0	0	3553226E-010	0	1715000E-050	0			
0	0	0	3405000E-00	0					
CASE NUMBER	4	GROUP NUMBER	1						
1837117E-01	9185587E-02	5000000E-02	6123724E-02	1224745E-01	6943651E-000	3430000E-03			
3779645E-000		2500000E-04	4582793E-040	0	8575000E-06	1889822E-02			
4829100E-000	0	0	6301312E-010	0	1715000E-050	0			
0	0	0	3802000E-00	0					
CASE NUMBER	5	GROUP NUMBER	1						
2628477E-01	1414214E-03	5000000E-02	7671048E-02	1414214E-01	1089045E-010	3430000E-03			
3779645E-000		2500000E-04	7671048E-040	0	8575000E-06	1889822E-02			
5345225E-000	0	0	8701505E-010	0	1715000E-050	0			
0	0	0	4021000E-00	0					
CASE NUMBER	6	GROUP NUMBER	1						
3532847E-01	1876424E-03	5000000E-02	7905694E-02	1581139E-01	1494036E-010	3430000E-03			
3779645E-000		2500000E-04	9882118E-040	0	8575000E-06	1889822E-02			
5978143E-000	0	0	1355827E-040	0	1715000E-050	0			
0	0	0	4315000E-00	0					
CASE NUMBER	7	GROUP NUMBER	1						
5198152E-01	2598076E-03	5000000E-02	8660254E-02	1732051E-01	1983861E-010	3430000E-03			
3779645E-000		2500000E-04	1299038E-050	0	8575000E-06	1889822E-02			
6546537E-000	0	0	1782280E-040	0	1715000E-050	0			
0	0	0	4661000E-00	0					
CASE NUMBER	8	GROUP NUMBER	1						
6547900E-01	3273950E-03	5000000E-02	9354141E-02	1870829E-01	2474874E-010	3430000E-03			
3779645E-000		2500000E-04	1828975E-050	0	8575000E-06	1889822E-02			
7071068E-000	0	0	2245930E-040	0	1715000E-050	0			
0	0	0	5010000E-00	0					

FRIDAY, JUL 2, 1974

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER	9	10	11	12	13	14	15	16
8000000E-01	4000000E-03	5000000E-02	1000000E-03	2000000E-01	3023716E-010	3430000E-03			
3779645E-000		2500000E-04	2000000E-050	0	8575000E-06	1889822E-02			
7559289E-000	0	0	2744000E-040	0	1715000E-050	0			
0	0	0	5415000E-00	0					
CASE NUMBER	10	GROUP NUMBER	1						
8501867E-01	4150934E-03	5000000E-02	1012423E-03	2024846E-01	3137811E-010	3430000E-03			
3779645E-000		2500000E-04	2075467E-050	0	8575000E-06	1889822E-02			
7653197E-000	0	0	2847540E-040	0	1715000E-050	0			
0	0	0	5491000E-00	0					
CASE NUMBER	11	GROUP NUMBER	1						
8607439E-01	4303719E-03	5000000E-02	1024695E-03	2049390E-01	3253306E-010	3430000E-03			
3779645E-000		2500000E-04	2151840E-050	0	8575000E-06	1889822E-02			
7745967E-000	0	0	2552251E-040	0	1715000E-050	0			
0	0	0	5504000E-00	0					
CASE NUMBER	12	GROUP NUMBER	1						
8916670E-01	4488335E-03	5000000E-02	1036822E-03	2073644E-01	3370184E-010	3430000E-03			
3779645E-000		2500000E-04	2291167E-050	0	8575000E-06	1889822E-02			
7837638E-000	0	0	3058418E-040	0	1715000E-050	0			
0	0	0	5501000E-00	0					
CASE NUMBER	13	GROUP NUMBER	1						
8229518E-01	4614759E-03	5000000E-02	1048809E-03	2097818E-01	3488430E-010	3430000E-03			
3779645E-000		2500000E-04	2307379E-050	0	8575000E-06	1889822E-02			
7928250E-000	0	0	3165725E-040	0	1715000E-050	0			
0	0	0	5538000E-00	0					
CASE NUMBER	14	GROUP NUMBER	1						
3232333E-000	0	5000000E-020	0	0	0	7290000E-03			
0	0	2500000E-040	0	0	0	1822500E-07	1666667E-02		
0	0	0	0	0	0	3645000E-050	0		
0	0	0	3298000E-00	0					
CASE NUMBER	15	GROUP NUMBER	1						
3535534E-00	1767767E-02	5000000E-02	3535534E-02	7071088E-00	1178511E-000	7290000E-03			
3232333E-000		2500000E-04	8828825E-020	0	1822500E-07	1666667E-02			
2357023E-000	0	0	3577404E-010	0	3645000E-050	0			
0	0	0	3458000E-00	0					
CASE NUMBER	16	GROUP NUMBER	1						
1000000E-01	5000000E-02	5000000E-02	5000000E-02	1000000E-01	3333333E-000	7290000E-03			
3232333E-000		2500000E-04	2500000E-040	0	1822500E-07	1666667E-02			
3232333E-000	0	0	7290000E-030	0	3645000E-050	0			
0	0	0	3704000E-00	0					

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER 17

```

1.1837117E+01  8.185587E+02  5.000000E+02  8.123724E+01  1.224745E+01  6.123724E+00  7.729000E+03
3.133333E+00  2.500000E+04  4.582793E+00  0.000000E+00  0.000000E+00  1.822500E+07  1.666667E+02
4.082483E+00  0.000000E+00  1.320259E+00  0.000000E+00  0.000000E+00  1.364500E+05  0.000000E+00
0.000000E+00  0.000000E+00  1.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00

```

CASE NUMBER	18	3070000000	GROUP NUMBER	1
.2828427E+01	.1414214E+03	.5000000E+02	.7071068E-02	.1414214E+01
.3233333E+00	.2500000E+04	.7071068E-040	.0	.9420808E+000
.4714045E+000	.0	.2081233E-040	.0	.1822500E+07
			.3845000E+050	.1666667E+02

CASE NUMBER	GROUP NUMBER
3852847E+01	1
3323333E+00	1
5270433E+00	1

CASE NUMBER	20	GROUP NUMBER	1
.5198132E+01	.2598076E+03	.5000000E+02	.8660254E+02
.3333333E+00	.2500000E+04	.1290308E+050	.1732051E+010
.5773803E+000	.0	.3787885E+040	.1822500E+07
.0	.0	.4965000E+050	.0

CASE NUMBER	21	0.	0.	4852000E+00	GROUP NUMBER	1	0.
8547900E-01	1273850E-03	5000000E-02	9334142E-02	1870822E-01	2182833E+010	7280000E-03	0.
3333333E+000	0.	2500000E-04	1636975E+050	0.	1822500E-07	1666667E+02	0.
6236096E+000	0.	0.	773419E+040	-3645000E+050	0.	0.	0.
0.	0.	0.	3440000E+00	0.	0.	0.	0.

CASE NUMBER	GROUP NUMBER
003030200-01-34152000-03-50000000-02-54068330-02-10073660-01-22744400-010-72900000-03	
33333330-000-25000000-04-17078300-050-0-18225000-07-16666670-000	
03245550-000-0-49794400-040-36450000-050-0-54810000-00	

[illegible]

CASE NUMBER	24	GROUP NUMBER	1
7407564E+01	3703702E+03	5000000E+02	9740794E+02
3333333E+000	2300000E+04	1851891E+030	0
6497861E+000	0	5400114E+040	1822300E+07
0	0	3499000E+00	1664667E+02
0	0	3499000E+00	0

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER 25

7701832E+00	3850941E+03	5000000E+02	9874709E+02	1978042E+01	2587294E+010	7290000E+03
3333333E+00		7500000E+04	1925471E+050			1822500E+07
6582808E+000	0	0	5614673E+040		-1645000E+050	0
0	0		5549000E+00			

CASE NUMBER	26	GROUP NUMBER	1
0	0	0	0
3162278E+000	2500000E+000	0	2500000E+07-1501139E+02
0	0	0	0
0	0	0	0
	1120000E+00	0	0

CASE NUMBER	27	GROUP NUMBER	1
29232389E+00	1461685E+02	5000000E+02	3218419E+02
3162278E+000	2500000E+04	8636238E+00	9244505E+010
2098752E+000	0	2500000E+07	158139E+02
0	0	2923238E+030	5000000E+050
0	0	3515000E+00	0

CASE NUMBER	20	GROUP NUMBER				
1000000E-01	5000000E-02	5000000E-02	5000000E-02	1000000E-01	3162278E+00	1000000E+04
3162278E+00	2500000E+04	2500000E+04	2500000E+04	2500000E+07	1581139E+02	
3162278E+00	0	1000000E+04	0	5000000E+03	0	
0	0	3814000E+00				

CASE NUMBER	29	GROUP NUMBER			
.1837117E+01	.185587E+02	.5000000E+02	.6123724E+02	.1224745E+01	.5809475E+000
.3162278E+000		.2500000E+04	.4582793E+040		.2500000E+07
.3872983E+000	0.	0.	.1837117E+040	-	.5000000E+050
0.	0.	0.	.4114000E+00		0.

CASE NUMBER	10	GROUP NUMBER	1
.2828427E+01	1414214E+03	.5000000E+02	.7071068E+02
.3182378E+000	.2500000E+04	.7071068E+040	.3944272E+000
.4472135E+000	.0	.2828427E+040	.5000000E+050
.0	.0	.4406090E+00	.0

CASE NUMBER	31	GROUP NUMBER	1
.3938738E+01	.1968269E+03	.5000000E+02	.7696277E+02
.1578255E+01	.1245528E+01	.1000000E+04	
.3162278E+00	.2500000E+04	.9848845E+00	0.
.4994044E+00	0.	.3938738E+04	.2500000E+07
0.	0.	.5000000E+00	.1581139E+02
0.	0.	.4730000E+00	0

CASE NUMBER	32	GROUP NUMBER	1
.5198152E+01-	2580876E+03-	.5000000E+02-	.8680254E+02
.3162278E+000.	.2500000E+04	.1295038E+050.	0.
.5477226E+000.	0.	.5198152E+040.	- .5000000E+050.
0.	0.	.5128000E+00	0.

FRIDAY, JUL 2, 1976

```
DATA INPUT
CASE NUMBER 33
.1540000E+01 -3273950E-03- 5000000E+02- .3254143E+02 1.870829E+01 .2070620E+010. .1000000E+04
.3162278E+000. 0. 2500000E+04 .1636975E+050. 0. 2500000E+07- .1581139E+02
.5916000E+000. 0. 0. .5498000E+00 -5000000E+050. 0.
0. 0. 0. .5498000E+00
CASE NUMBER 34
.6830520E+01- .3415260E+03- 5000000E+02- .9488833E+02 1.097376E+01 .2160000E+010. .1000000E+04
.3162278E+000. 0. 2500000E+04 .1707630E+050. 0. 2500000E+07- .1581139E+02
.6000000E+000. 0. 0. .6830520E+040. -5000000E+050. 0.
0. 0. 0. .5510000E+00
CASE NUMBER 35
.7117092E+01- .3558546E+03- 5000000E+02- .8617682E+02 1.823538E+01 .2250622E+010. .1000000E+04
.3162278E+000. 0. 2500000E+04 .1779273E+050. 0. 2500000E+07- .1581139E+02
.6082783E+000. 0. 0. .7117092E+040. -5000000E+050. 0.
0. 0. 0. .5561000E+00
CASE NUMBER 36
.2886751E+000. -5000000E+020. 0. 0. 0. .1728000E+04
0. 0. 0. 2500000E+040. 0. 0. .4320000E+07- .1443376E+02
0. 0. 0. 0. -8640000E+050. 0.
0. 0. 0. .3453000E+00
CASE NUMBER 37
.3535534E+00- .1767767E+02- 5000000E+02- .3535534E+02 7071068E+00 .1020621E+000. .1728000E+04
.2088751E+000. 0. 2500000E+04 .8938835E+030. 0. .4320000E+07- .1443376E+02
.2041241E+000. 0. 0. .6109403E+030. -8640000E+050. 0.
0. 0. 0. .3728000E+00
CASE NUMBER 38
.1000000E+01- 5000000E+02- 5000000E+02- 5000000E+01 1000000E+01 .2886751E+000. .1728000E+04
.2886751E+000. 0. 2500000E+04 .2500000E+040. 0. .4320000E+07- .1443376E+02
.2886751E+000. 0. 0. .1728000E+040. -8640000E+050. 0.
0. 0. 0. .4011000E+00
CASE NUMBER 39
.1837117E+01- 9185587E+02- 5000000E+02- 6123726E+02 1.224745E+01 .5203301E+000. .1728000E+04
.2886751E+000. 0. 2500000E+04 .4582793E+040. 0. .4320000E+07- .1443376E+02
.3535534E+000. 0. 0. .3174529E+040. -8640000E+050. 0.
0. 0. 0. .4282000E+00
CASE NUMBER 40
.2828427E+01- .1414214E+03- 5000000E+02- 7071088E+02 1.414214E+01 .8164968E+000. .1728000E+04
.2886751E+000. 0. 2500000E+04 .7071088E+040. 0. .4320000E+07- .1443376E+02
.4082483E+000. 0. 0. .4087522E+040. -8640000E+050. 0.
0. 0. 0. .4568000E+00
```

FRIDAY, JUL 2, 1976

[illegible]

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 49
.282842E+01 .141421E+03 .500000E+02 .707106E+02 .141421E+01 .742787E+00 .304862E+04
.262612E+00 .250000E+04 .707106E+04 .0. .762156E+07 .131306E+02
.371390E+00 .0. .862281E+040 .152431E+060 .0.
0. 0. .485000E+00
CASE NUMBER 50
.395284E+01 .197642E+03 .500000E+02 .705584E+02 .158113E+01 .103806E+010 .304862E+04
.262612E+00 .250000E+04 .882118E+040 .0. .762156E+07 .131306E+02
.415227E+00 .0. .120507E+050 .152431E+060 .0.
0. 0. .525200E+00
CASE NUMBER 51
.419237E+01 .209618E+03 .500000E+02 .806225E+02 .161245E+01 .110097E+010 .304862E+04
.262612E+00 .250000E+04 .104809E+050 .0. .762156E+07 .131306E+02
.423450E+00 .0. .127809E+050 .152431E+060 .0.
0. 0. .525300E+00
CASE NUMBER 52
.377964E+00 .0. .0. .0. .0. .0. .343000E+03
0. 0. .0. .0. .0. .0.
0. 0. .288800E+00
CASE NUMBER 53
.353534E+00 .0. .0. .707106E+00 .133830E+000 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.267261E+00 .0. .121268E+030 .0. .0.
0. 0. .317000E+00
CASE NUMBER 54
.100000E+010 .0. .0. .100000E+01 .377964E+000 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.377964E+00 .0. .343000E+030 .0. .0.
0. 0. .324500E+00
CASE NUMBER 55
.176110E+010 .0. .0. .120761E+01 .665635E+000 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.656435E+00 .0. .604058E+030 .0. .0.
0. 0. .354500E+00
CASE NUMBER 56
.282842E+010 .0. .0. .141421E+01 .106904E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.534522E+00 .0. .870150E+030 .0. .0.
0. 0. .381800E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 57
.395284E+010 .0. .0. .158113E+01 .149403E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.597614E+00 .0. .135582E+040 .0. .0.
0. 0. .409100E+00
CASE NUMBER 58
.524281E+010 .0. .0. .173719E+01 .198152E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.656591E+00 .0. .179821E+040 .0. .0.
0. 0. .437500E+00
CASE NUMBER 59
.654780E+010 .0. .0. .187082E+01 .247487E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.707106E+00 .0. .224583E+040 .0. .0.
0. 0. .466700E+00
CASE NUMBER 60
.800000E+010 .0. .0. .200000E+01 .302371E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.755920E+00 .0. .274400E+040 .0. .0.
0. 0. .498000E+00
CASE NUMBER 61
.820186E+010 .0. .0. .202464E+01 .313781E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.765319E+00 .0. .284754E+040 .0. .0.
0. 0. .502900E+00
CASE NUMBER 62
.860743E+010 .0. .0. .204939E+01 .325310E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.774598E+00 .0. .295235E+040 .0. .0.
0. 0. .519000E+00
CASE NUMBER 63
.891667E+010 .0. .0. .207364E+01 .337018E+010 .0. .343000E+03
.377964E+00 .0. .0. .0. .0. .0.
.783762E+00 .0. .305841E+040 .0. .0.
0. 0. .519300E+00
CASE NUMBER 64
.9. 0. .0. .0. .0. .0. .729000E+03
.333333E+00 .0. .0. .0. .0. .0.
0. 0. .0. .0. .0. .0.
0. 0. .303800E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED				GROUP NUMBER			
DATA INPUT							
CASE NUMBER	65	0.	0.	7071088E+00	117811E+000	7290000E+03	
3535534E+000	0.	0.	0.	0.	0.	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
2357023E+000	0.	0.	0.	2577494E+030	0.	0.	
0.	0.	0.	0.	3272000E+00	0.	0.	
CASE NUMBER	66	0.	0.	GROUP NUMBER		7290000E+03	
1000000E+010	0.	0.	0.	1000000E+01	3333333E+000	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
3333333E+000	0.	0.	0.	7280000E+030	0.	0.	
0.	0.	0.	0.	3527000E+00	0.	0.	
CASE NUMBER	67	0.	0.	GROUP NUMBER		7290000E+03	
1837117E+010	0.	0.	0.	1224745E+01	5123724E+000	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
4082463E+000	0.	0.	0.	1339259E+040	0.	0.	
0.	0.	0.	0.	3778000E+00	0.	0.	
CASE NUMBER	68	0.	0.	GROUP NUMBER		7290000E+03	
2828427E+010	0.	0.	0.	1414214E+01	9428090E+000	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
4714045E+000	0.	0.	0.	2061923E+040	0.	0.	
0.	0.	0.	0.	4078000E+00	0.	0.	
CASE NUMBER	69	0.	0.	GROUP NUMBER		7290000E+03	
3952847E+010	0.	0.	0.	1561139E+01	1317818E+010	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
5270463E+000	0.	0.	0.	2881626E+040	0.	0.	
0.	0.	0.	0.	4279000E+00	0.	0.	
CASE NUMBER	70	0.	0.	GROUP NUMBER		7290000E+03	
5196152E+010	0.	0.	0.	1732051E+01	1732051E+010	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
5773503E+000	0.	0.	0.	3787895E+040	0.	0.	
0.	0.	0.	0.	4578000E+00	0.	0.	
CASE NUMBER	71	0.	0.	GROUP NUMBER		7290000E+03	
5547900E+010	0.	0.	0.	1870829E+01	2182433E+010	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
6236096E+000	0.	0.	0.	4773419E+040	0.	0.	
0.	0.	0.	0.	4978000E+00	0.	0.	
CASE NUMBER	72	0.	0.	GROUP NUMBER		7290000E+03	
6830520E+010	0.	0.	0.	1897367E+01	2278840E+010	0.	
3333333E+000	0.	0.	0.	0.	0.	0.	
8324555E+000	0.	0.	0.	4979449E+040	0.	0.	
0.	0.	0.	0.	5044000E+00	0.	0.	

FRIDAY, JUL 2, 1976

TRANSGENERATED				GROUP NUMBER			
DATA INPUT							
CASE NUMBER	73	0.	0.	1923538E+01	2372364E+010	7290000E+03	
7117092E+010	0.	0.	0.	0.	0.	0.	
3333333E+000	0.	0.	0.	5198360E+040	0.	0.	
6411795E+000	0.	0.	0.	5117000E+00	0.	0.	
0.	0.	0.	0.	GROUP NUMBER		1000000E+04	
CASE NUMBER	74	0.	0.	0.	0.	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	3128000E+00	0.	0.	
CASE NUMBER	75	0.	0.	GROUP NUMBER		1000000E+04	
3535534E+000	0.	0.	0.	7071088E+00	1118034E+000	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
2238068E+000	0.	0.	0.	3535534E+030	0.	0.	
0.	0.	0.	0.	3360000E+00	0.	0.	
CASE NUMBER	76	0.	0.	GROUP NUMBER		1000000E+04	
1000000E+010	0.	0.	0.	1000000E+01	3162278E+000	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
3162278E+000	0.	0.	0.	1000000E+040	0.	0.	
0.	0.	0.	0.	3815000E+00	0.	0.	
CASE NUMBER	77	0.	0.	GROUP NUMBER		1000000E+04	
1837117E+010	0.	0.	0.	1224745E+01	5809475E+000	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
3872983E+000	0.	0.	0.	1837117E+040	0.	0.	
0.	0.	0.	0.	3844000E+00	0.	0.	
CASE NUMBER	78	0.	0.	GROUP NUMBER		1000000E+04	
2828427E+010	0.	0.	0.	1414214E+01	8944272E+000	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
4472136E+000	0.	0.	0.	2828427E+040	0.	0.	
0.	0.	0.	0.	4101000E+00	0.	0.	
CASE NUMBER	79	0.	0.	GROUP NUMBER		1000000E+04	
3952847E+010	0.	0.	0.	1561139E+01	1250000E+010	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
5000000E+000	0.	0.	0.	3952847E+040	0.	0.	
0.	0.	0.	0.	4384000E+00	0.	0.	
CASE NUMBER	80	0.	0.	GROUP NUMBER		1000000E+04	
5196152E+010	0.	0.	0.	1732051E+01	1643168E+010	0.	
3162278E+000	0.	0.	0.	0.	0.	0.	
5477226E+000	0.	0.	0.	5196152E+040	0.	0.	
0.	0.	0.	0.	4719000E+00	0.	0.	

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 81	0.	0.	GROUP NUMBER 1	1760682E+01	1726007E+010	1000000E+04
.5458113E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5587704E+000	0.	0.		.5458113E+040	0.	0.
0.	0.	0.		.4802000E+00	0.	0.
CASE NUMBER 82	0.	0.	GROUP NUMBER 1	1788954E+01	1810193E+010	1000000E+04
.5724234E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5656854E+000	0.	0.		.5724234E+040	0.	0.
0.	0.	0.		.4891000E+00	0.	0.
CASE NUMBER 83	0.	0.	GROUP NUMBER 1	1816590E+01	1895706E+010	1000000E+04
.5894748E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5744563E+000	0.	0.		.5894748E+040	0.	0.
0.	0.	0.		.4978000E+00	0.	0.
CASE NUMBER 84	0.	0.	GROUP NUMBER 1	1843809E+01	192524E+010	1000000E+04
.6269290E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5830952E+000	0.	0.		.6269290E+040	0.	0.
0.	0.	0.		.5061000E+00	0.	0.
CASE NUMBER 85	0.	0.	GROUP NUMBER 1	1870829E+01	2070628E+010	1000000E+04
.6847900E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5916060E+000	0.	0.		.6547900E+040	0.	0.
0.	0.	0.		.5132000E+00	0.	0.
CASE NUMBER 86	0.	0.	GROUP NUMBER 1	1091091E+00	3749666E+030	1728000E+04
.1298922E+020	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.3149709E+010	0.	0.		.2244538E+010	0.	0.
0.	0.	0.		.2260000E+00	0.	0.
CASE NUMBER 87	0.	0.	GROUP NUMBER 1	7071048E+00	1020621E+000	1728000E+04
.3535534E+000	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.2041241E+000	0.	0.		.6109403E+020	0.	0.
0.	0.	0.		.3472000E+00	0.	0.
CASE NUMBER 88	0.	0.	GROUP NUMBER 1	1000000E+01	2886751E+000	1728000E+04
.1000000E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		.1728000E+040	0.	0.
0.	0.	0.		.3727000E+00	0.	0.

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 89	0.	0.	GROUP NUMBER 1	1224745E+01	5302301E+000	1728000E+04
.1827117E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.3535534E+000	0.	0.		.3174539E+040	0.	0.
0.	0.	0.		.3997000E+00	0.	0.
CASE NUMBER 90	0.	0.	GROUP NUMBER 1	1414214E+01	8164966E+000	1728000E+04
.2828427E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4082483E+000	0.	0.		.4887522E+040	0.	0.
0.	0.	0.		.4267000E+00	0.	0.
CASE NUMBER 91	0.	0.	GROUP NUMBER 1	1581139E+01	1141089E+010	1728000E+04
.3952847E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4564355E+000	0.	0.		.4830520E+040	0.	0.
0.	0.	0.		.4598000E+00	0.	0.
CASE NUMBER 92	0.	0.	GROUP NUMBER 1	1612452E+01	1210234E+010	1728000E+04
.4182374E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4654747E+000	0.	0.		.7244422E+040	0.	0.
0.	0.	0.		.4670000E+00	0.	0.
CASE NUMBER 93	0.	0.	GROUP NUMBER 1	1643168E+01	1280722E+010	1728000E+04
.4438553E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4743416E+000	0.	0.		.7866363E+040	0.	0.
0.	0.	0.		.4741000E+00	0.	0.
CASE NUMBER 94	0.	0.	GROUP NUMBER 1	1673320E+01	1352526E+010	1728000E+04
.4685296E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4820459E+000	0.	0.		.8096192E+040	0.	0.
0.	0.	0.		.4822000E+00	0.	0.
CASE NUMBER 95	0.	0.	GROUP NUMBER 1	1702939E+01	1425629E+010	1728000E+04
.4938522E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4915860E+000	0.	0.		.8533788E+040	0.	0.
0.	0.	0.		.4912000E+00	0.	0.
CASE NUMBER 96	0.	0.	GROUP NUMBER 1	1732051E+01	1500000E+010	1728000E+04
.5196152E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.5000000E+000	0.	0.		.8878951E+040	0.	0.
0.	0.	0.		.5012000E+00	0.	0.

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSACTIONS					
DATE IN UT					
CASE NUMBER	97		GROUP NUMBER	1	
0.	0.	0.	0.	0.	.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.
0.	0.	.3384000E+00			
CASE NUMBER	98		GROUP NUMBER	1	
.355534E+000.	0.	0.	.707106E+00 .828476E+010.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.1856953E+000.	0.	.1077852E+040.	0.	0.	0.
0.	0.	.3623000E+00			
CASE NUMBER	99		GROUP NUMBER	1	
.1000000E+010.	0.	0.	.1000000E+01 .2626129E+000.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.2626129E+000.	0.	.3048625E+040.	0.	0.	0.
0.	0.	.3600000E+00			
CASE NUMBER	100		GROUP NUMBER	1	
.1837172E+010.	0.	0.	.122474E+01 .482450E+000.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3214338E+000.	0.	.5800682E+040.	0.	0.	0.
0.	0.	.4171000E+00			
CASE NUMBER	101		GROUP NUMBER	1	
.2828427E+010.	0.	0.	.1414214E+01 .7427814E+000.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3713907E+000.	0.	.8622814E+040.	0.	0.	0.
0.	0.	.4491000E+00			
CASE NUMBER	102		GROUP NUMBER	1	
.3043189E+010.	0.	0.	.144913E+01 .7991806E+000.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3805622E+000.	0.	.8277542E+040.	0.	0.	0.
0.	0.	.4558000E+00			
CASE NUMBER	103		GROUP NUMBER	1	
.3293127E+010.	0.	0.	.1483240E+01 .8569392E+000.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3895178E+000.	0.	.8848052E+040.	0.	0.	0.
0.	0.	.4834000E+00			
CASE NUMBER	104		GROUP NUMBER	1	
.3488123E+010.	0.	0.	.151657E+01 .9160259E+000.		.3048625E+04
.2626129E+000.	0.	0.	0.	0.	0.
.3982721E+000.	0.	.1063398E+050.	0.	0.	0.
0.	0.	.4712000E+00			

FRIDAY, JUL 2, 1976

```

UNREGENERATED
DATA INPUT
CASE NUMBER 105
.3718064E+010. 0. 0. 1549193E+01 .9764114E+000. 3048625E+04
.2626129E+000. 0. 0. 0. 0. 0.
.4060381E+000. 0. 1123498E+050. 0. 0. 0.
0. 0. 0. 4791000E+00
CASE NUMBER 106
0. 0. 1000000E+030. 0. 0. 3430000E+03
.3779845E+000. 0. 1000000E+050. 0. 0. 3430000E+07 .3779845E+02
0. 0. 0. 0. 3430000E+050. 0.
0. 0. 0. 2671000E+00
CASE NUMBER 107
.353534E+00 .353534E+02 1000000E+03 .7071068E+02 .7071068E+00 .1236306E+000. 3430000E+03
.3779845E+000. 0. 1000000E+05 .353534E+040. 0. 3430000E+07 .3779845E+02
.2672612E+000. 0. 1212688E+030. 0. 3430000E+050. 0.
0. 0. 0. 2881000E+00
CASE NUMBER 108
1000000E+01 1000000E+03 1000000E+03 1000000E+03 1000000E+03 .3779845E+000. 3430000E+03
.3779845E+000. 0. 1000000E+05 .3779845E+050. 0. 3430000E+07 .3779845E+02
0. 0. 0. 3430000E+030. 0. 3430000E+050. 0.
0. 0. 0. 3040000E+00
CASE NUMBER 109
.1837117E+01 .1837117E+03 1000000E+03 1224745E+02 1224745E+01 .6942651E+000. 3430000E+03
.3779845E+000. 0. 1000000E+05 .1837117E+050. 0. 3430000E+07 .3779845E+02
.4629100E+000. 0. 1303112E+030. 0. 3430000E+050. 0.
0. 0. 0. 3231000E+00
CASE NUMBER 110
.2823427E+01 .2828427E+03 1000000E+03 1414214E+02 1414214E+01 1069045E+010. 3430000E+03
.3779845E+000. 0. 1000000E+05 .2828427E+050. 0. 3430000E+07 .3779845E+02
.9245225E+000. 0. 9701505E+030. 0. 3430000E+050. 0.
0. 0. 0. 3416000E+00
CASE NUMBER 111
.3952847E+01 .3952847E+03 1000000E+03 1581138E+02 1581138E+01 1494036E+010. 3430000E+03
.3779845E+000. 0. 1000000E+05 .3952847E+050. 0. 3430000E+07 .3779845E+02
.5978143E+000. 0. 1355827E+040. 0. 3430000E+050. 0.
0. 0. 0. 3630000E+00
CASE NUMBER 112
5196152E+01 5196152E+03 1000000E+03 1722051E+02 1722051E+01 1963981E+010. 3430000E+03
.3779845E+000. 0. 1598152E+050. 0. 3430000E+07 .3779845E+02
.6548537E+000. 0. 1782280E+040. 0. 3430000E+050. 0.
0. 0. 0. 3880000E+00

```

FRIDAY, JUL 2, 1974

FRIDAY, JUL 2, 1976

```

REGENERATED
DATA INPUT
CASE NUMBER 121
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3232333E+00 .7290000E+07
.3232333E+00 .1000000E+03 .1000000E+03 .1000000E+03 .0 .7290000E+07 .3232333E+02
.3232333E+00 .0 .7290000E+03 .7290000E+03 .7290000E+03 .0 .
0 .0 .3158000E+00
CASE NUMBER 122
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .812724E+00 .7290000E+07
.3232333E+00 .1000000E+03 .1837117E+03 .1837117E+03 .0 .7290000E+07 .3232333E+02
.4082483E+00 .0 .1332550E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .3383000E+00
CASE NUMBER 123
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8428090E+00 .7290000E+07
.3232333E+00 .1000000E+03 .2828427E+03 .2828427E+03 .0 .7290000E+07 .3232333E+02
.4714045E+00 .0 .2041923E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .3584000E+00
CASE NUMBER 124
.3952847E+01 .3952847E+03 .1000000E+03 .1581139E+03 .1581139E+01 .1317818E+01 .7290000E+07
.3232333E+00 .1000000E+03 .3952847E+03 .3952847E+03 .0 .7290000E+07 .3232333E+02
.5270463E+00 .0 .2881152E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .3838000E+00
CASE NUMBER 125
.5196152E+01 .5196152E+03 .1000000E+03 .1732051E+03 .1732051E+01 .1732051E+01 .7290000E+07
.3232333E+00 .1000000E+03 .5196152E+03 .5196152E+03 .0 .7290000E+07 .3232333E+02
.5773502E+00 .0 .3787985E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .4138000E+00
CASE NUMBER 126
.5458131E+01 .5458131E+03 .1000000E+03 .1760882E+03 .1760882E+01 .819371E+01 .7290000E+07
.3232333E+00 .1000000E+03 .5458131E+03 .5458131E+03 .0 .7290000E+07 .3232333E+02
.5868029E+00 .0 .3878945E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .4205000E+00
CASE NUMBER 127
.5744334E+01 .5744334E+03 .1000000E+03 .1788854E+03 .1788854E+01 .1908111E+01 .7290000E+07
.3232333E+00 .1000000E+03 .5744334E+03 .5744334E+03 .0 .7290000E+07 .3232333E+02
.5962848E+00 .0 .4173048E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .4271000E+00
CASE NUMBER 128
.5984748E+01 .5984748E+03 .1000000E+03 .1818590E+03 .1818590E+01 .1998248E+01 .7290000E+07
.3232333E+00 .1000000E+03 .5984748E+03 .5984748E+03 .0 .7290000E+07 .3232333E+02
.6051301E+00 .0 .4370171E+00 .7290000E+03 .7290000E+03 .0 .
0 .0 .4318000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	129				GROUP NUMBER	1		
.6269290E+01	.6269290E+03	.1000000E+03	.1847309E+03	.1843909E+01	.2099763E+010		.7290000E+03	
.3333333E+000		.1000000E+05	.6268290E+050	0		.7290000E+07	.3333333E+02	
.6146363E+000	0	0	.4570313E+040		.7290000E+050	0		
0	0	0	.4410000E+00					
CASE NUMBER	130				GROUP NUMBER	1		
.6547900E+01	.6547900E+03	.1000000E+03	.1870829E+03	.1870829E+01	.2162633E+010		.7290000E+03	
.3333333E+000		.1000000E+05	.6547900E+050	0		.7290000E+07	.3333333E+02	
.6236086E+000	0	0	.4772419E+040		.7290000E+050	0		
0	0	0	.4488000E+00					
CASE NUMBER	131				GROUP NUMBER	1		
.2628817E+02	.2628817E+00	.1000000E+03	.1380130E+02	.1380130E+00	.8213050E+030		.1000000E+04	
.3162278E+000		.1000000E+05	.2628817E+020			.1000000E+08	.3162278E+02	
.4364356E+010	0	0	.2628817E+010		.1000000E+060	0		
0	0	0	.2847000E+00					
CASE NUMBER	132				GROUP NUMBER	1		
.3535534E+00	.3535534E+02	.1000000E+03	.7071068E+02	.7071068E+00	.1118034E+000		.1000000E+04	
.3162278E+000		.1000000E+05	.3535534E+040	0		.1000000E+08	.3162278E+02	
.2236086E+000	0	0	.3535534E+030		.1000000E+060	0		
0	0	0	.3052000E+00					
CASE NUMBER	133				GROUP NUMBER	1		
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03	.1000000E+01	.3162278E+000		.1000000E+04	
.3162278E+000		.1000000E+05	.1000000E+050	0		.1000000E+08	.3162278E+02	
.3162278E+000	0	0	.1000000E+040		.1000000E+060	0		
0	0	0	.3229000E+00					
CASE NUMBER	134				GROUP NUMBER	1		
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03	.1224745E+01	.5809475E+000		.1000000E+04	
.3162278E+000		.1000000E+05	.1837117E+050	0		.1000000E+08	.3162278E+02	
.3872883E+000	0	0	.1837117E+040		.1000000E+060	0		
0	0	0	.3432000E+00					
CASE NUMBER	135				GROUP NUMBER	1		
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03	.1414214E+01	.8944272E+000		.1000000E+04	
.3162278E+000		.1000000E+05	.2828427E+050	0		.1000000E+08	.3162278E+02	
.4472136E+000	0	0	.2828427E+040		.1000000E+060	0		
0	0	0	.3670000E+00					
CASE NUMBER	136				GROUP NUMBER	1		
.3952847E+01	.3952847E+03	.1000000E+03	.1581139E+03	.1581139E+01	.1250000E+010		.1000000E+04	
.3162278E+000		.1000000E+05	.3952847E+050	0		.1000000E+08	.3162278E+02	
.5000000E+000	0	0	.3952847E+040		.1000000E+060	0		
0	0	0	.3942000E+00					

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

```

CASE NUMBER 127                                GROUP NUMBER 1
.5196152E+01 .5196152E+03 .1000000E+03 .1732051E+07 .1732051E+01 .1643168E+010 .1000000E+04
.3162278E+000 .1000000E+05 .5196152E+050 .0 .1000000E+08 .3162278E+02
.5477726E+000 .0 .5196152E+040 .1000000E+060 .0
0 0 .4259000E+00                                GROUP NUMBER 1
.5458113E+01 .5458113E+03 .1000000E+03 .1760682E+03 .1760682E+01 .1726007E+010 .1000000E+04
.3162278E+000 .1000000E+05 .5458113E+050 .0 .1000000E+08 .3162278E+02
.5587764E+000 .0 .5458113E+040 .1000000E+060 .0
0 0 .4327000E+00                                GROUP NUMBER 1
.5724334E+01 .5724334E+03 .1000000E+03 .1788854E+03 .1788854E+01 .1810193E+010 .1000000E+04
.3162278E+000 .1000000E+05 .5724334E+050 .0 .1000000E+08 .3162278E+02
.5638584E+000 .0 .5724334E+040 .1000000E+060 .0
0 0 .4396000E+00                                GROUP NUMBER 1
CASE NUMBER 140                                GROUP NUMBER 1
.2886751E+000 .1000000E+030 .0 .0 .0 .1728000E+04
.2886751E+000 .1000000E+050 .0 .0 .0 .1728000E+08 .2886751E+02
0 0 .2903000E+00                                GROUP NUMBER 1
CASE NUMBER 141                                GROUP NUMBER 1
.3535534E+00 .3535534E+02 .1000000E+03 .7071068E+02 .7071068E+00 .1020621E+000 .1728000E+04
.2886751E+000 .1000000E+05 .3535534E+040 .0 .1728000E+08 .2886751E+02
.2041241E+000 .0 .6109403E+030 .1728000E+060 .0
0 0 .3126000E+00                                GROUP NUMBER 1
CASE NUMBER 142                                GROUP NUMBER 1
.1000000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .2886751E+000 .1728000E+04
.2886751E+000 .1000000E+05 .1000000E+050 .0 .1728000E+08 .2886751E+02
.2886751E+000 .0 .1728000E+040 .1728000E+060 .0
0 0 .3345000E+00                                GROUP NUMBER 1
CASE NUMBER 143                                GROUP NUMBER 1
.1837117E+01 .1837117E+03 .1000000E+03 .1224745E+03 .1224745E+01 .5203301E+000 .1728000E+04
.2886751E+000 .1000000E+05 .1837117E+050 .0 .1728000E+08 .2886751E+02
.3535534E+000 .0 .3174539E+040 .1728000E+060 .0
0 0 .3575000E+00                                GROUP NUMBER 1
CASE NUMBER 144                                GROUP NUMBER 1
.2828427E+01 .2828427E+03 .1000000E+03 .1414214E+03 .1414214E+01 .8149686E+000 .1728000E+04
.2886751E+000 .1000000E+05 .2828427E+050 .0 .1728000E+08 .2886751E+02
.4082483E+000 .0 .4887532E+040 .1728000E+060 .0
0 0 .3845000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1978

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 145
3952847E-01 3952847E-03 1000000E-03 1581139E-03 1581139E-01 1141088E-010 1728000E-04
2886751E-000 1000000E-05 3952847E-050 0 1728000E-08 2886751E-02
4564355E-000 0 4153000E-00 1728000E-060 0
0 0 4153000E-00 1728000E-060 0
CASE NUMBER 146
4192374E-01 4192374E-03 1000000E-03 1612452E-03 1612452E-01 1210234E-010 1728000E-04
2886751E-000 1000000E-05 4192374E-050 0 1728000E-08 2886751E-02
4654747E-000 0 4218000E-00 1728000E-060 0
0 0 4218000E-00 1728000E-060 0
CASE NUMBER 147
4436553E-01 4436553E-03 1000000E-03 1643188E-03 1643188E-01 1280722E-010 1728000E-04
2886751E-000 1000000E-05 4436553E-050 0 1728000E-08 2886751E-02
4743418E-000 0 4282000E-00 1728000E-060 0
0 0 4282000E-00 1728000E-060 0
CASE NUMBER 148
2626129E-000 1000000E-030 0 0 0 3048625E-04
0 1000000E-050 0 0 3048625E-08 2626129E-02
0 0 3020000E-00 3048625E-060 0
0 0 3020000E-00 3048625E-060 0
CASE NUMBER 149
3535534E-00 3535534E-02 1000000E-03 7071068E-02 7071068E-00 9284767E-010 3048625E-04
2626129E-000 1000000E-05 3535534E-040 0 3048625E-08 2626129E-02
1856953E-000 0 1077852E-040 3048625E-060 0
0 0 3250000E-00 3048625E-060 0
CASE NUMBER 150
1000000E-01 1000000E-03 1000000E-03 1000000E-03 1000000E-01 2626129E-000 3048625E-04
2626129E-000 1000000E-05 1000000E-050 0 3048625E-08 2626129E-02
2626129E-000 0 3048625E-040 3048625E-060 0
0 0 3486000E-00 3048625E-060 0
CASE NUMBER 151
1837117E-01 1837117E-03 1000000E-03 1224745E-03 1224745E-01 4824506E-000 3048625E-04
2626129E-000 1000000E-05 1837117E-050 0 3048625E-08 2626129E-02
2163338E-000 0 5600482E-040 3048625E-060 0
0 0 3760000E-00 3048625E-060 0
CASE NUMBER 152
2828427E-01 2828427E-03 1000000E-03 1414214E-03 1414214E-01 7427814E-000 3048625E-04
2626129E-000 1000000E-05 2828427E-050 0 3048625E-08 2626129E-02
3713907E-000 0 6622814E-040 3048625E-060 0
0 0 4065000E-00 3048625E-060 0

```

FRIDAY, JUL 2, 1978

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 153
3042188E-01 3042188E-03 1000000E-03 1449138E-03 1449138E-01 7991806E-000 3048625E-04
2626129E-000 1000000E-05 3042188E-050 0 3048625E-08 2626129E-02
3005622E-000 0 3277542E-040 3048625E-060 0
0 0 4128000E-00 3048625E-060 0
CASE NUMBER 154
0 2000000E-030 0 0 0 3430000E-03
3779645E-000 4000000E-050 0 0 1372000E-08 7559289E-02
0 0 2520000E-00 6860000E-050 0
0 0 2520000E-00 6860000E-050 0
CASE NUMBER 155
3535534E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1336306E-000 3430000E-03
3779645E-000 4000000E-05 1414214E-050 0 1372000E-08 7559289E-02
2672612E-000 0 2647000E-00 6860000E-050 0
0 0 2647000E-00 6860000E-050 0
CASE NUMBER 156
1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 3779645E-000 3430000E-03
3779645E-000 4000000E-05 4000000E-050 0 1372000E-08 7559289E-02
3779645E-000 0 3430000E-030 6860000E-050 0
0 0 2782000E-00 6860000E-050 0
CASE NUMBER 157
1837117E-01 2874235E-03 2000000E-03 2449480E-03 1224745E-01 6943651E-000 3430000E-03
3779645E-000 4000000E-05 2449480E-050 0 1372000E-08 7559289E-02
4629100E-000 0 6701312E-030 6860000E-050 0
0 0 2930000E-00 6860000E-050 0
CASE NUMBER 158
2828427E-01 5856854E-03 2000000E-03 2828427E-03 1414214E-01 1089045E-010 3430000E-03
3779645E-000 4000000E-05 1131371E-060 0 1372000E-08 7559289E-02
5345225E-000 0 9701505E-030 6860000E-050 0
0 0 3116000E-00 6860000E-050 0
CASE NUMBER 159
3952847E-01 7905694E-03 2000000E-03 3142278E-03 1581139E-01 1494038E-010 3430000E-03
3779645E-000 4000000E-05 1581139E-040 0 1372000E-08 7559289E-02
5978143E-000 0 135827E-040 6860000E-050 0
0 0 3340000E-00 6860000E-050 0
CASE NUMBER 160
5196152E-01 1039230E-04 2000000E-03 3464102E-02 1722051E-01 1962901E-010 3430000E-03
3779645E-000 4000000E-05 2078461E-060 0 1372000E-08 7559289E-02
6546537E-000 0 1782280E-040 6860000E-050 0
0 0 3577000E-00 6860000E-050 0

```


NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	161				GROUP NUMBER	1			
.6547900E+01	.1309580E+04	.2000000E+03	.3741657E+03	.1870828E+01	.2474874E+010			.3430000E+03	
.3779645E+000		.4000000E+05	.2619180E+050				.1372000E+08	.7559289E+02	
.7071068E+000			.2245970E+040		.6860000E+050				0.
0.	0.	0.	.3858000E+00						0.
CASE NUMBER	162				GROUP NUMBER	1			
.6830520E+01	.136804E+04	.2000000E+03	.3784733E+03	.1897367E+01	.2581694E+010			.3430000E+03	
.3779645E+000		.4000000E+05	.3132208E+050				.1372000E+08	.7559289E+02	
.7171372E+000			.3742388E+040		.6860000E+050				0.
0.	0.	0.	.3908000E+00						0.
CASE NUMBER	163				GROUP NUMBER	1			
.7117082E+01	.1423418E+04	.2000000E+03	.3847077E+03	.1923335E+01	.2690008E+010			.3430000E+03	
.3779645E+000		.4000000E+05	.2846837E+050				.1372000E+08	.7559289E+02	
.7270292E+000			.2441163E+040		.6860000E+050				0.
0.	0.	0.	.3982000E+00						0.
CASE NUMBER	164				GROUP NUMBER	1			
.7407564E+01	.1481513E+04	.2000000E+03	.3998718E+03	.1949359E+01	.2799798E+010			.3430000E+03	
.3779645E+000		.4000000E+05	.2912251E+050				.1372000E+08	.7559289E+02	
.7367894E+000			.3019289E+040		.6860000E+050				0.
0.	0.	0.	.4019000E+00						0.
CASE NUMBER	165				GROUP NUMBER	1			
0.	0.	.2000000E+030	0.	0.	0.			.7290000E+03	
.3333333E+000		.4000000E+050	0.	0.			.2916000E+08	.6666667E+02	
0.	0.	0.	0.	0.	.1458000E+060				0.
0.	0.	0.	.2585000E+00						0.
CASE NUMBER	166				GROUP NUMBER	1			
.3535534E+00	.7071068E+02	.2000000E+03	.1414214E+03	.7071068E+00	.1178511E+000			.7290000E+03	
.3333333E+000		.4000000E+05	.1414214E+050				.2916000E+08	.6666667E+02	
.3357023E+000			.2577404E+030		.1458000E+060				0.
0.	0.	0.	.2734000E+00						0.
CASE NUMBER	167				GROUP NUMBER	1			
.1000000E+01	.2000000E+03	.2000000E+02	.2000000E+03	.1000000E+01	.3333332E+000			.7290000E+03	
.3333333E+000		.4000000E+05	.4000000E+050		0.		.2916000E+08	.6666667E+02	
.3333333E+000		0.	.7290000E+030		.1458000E+060				0.
0.	0.	0.	.2897000E+00						0.
CASE NUMBER	168				GROUP NUMBER	1			
.1837117E+01	.3874235E+03	.2000000E+03	.2448949E+03	.1224745E+01	.6123724E+000			.7290000E+03	
.3333333E+000		.4000000E+05	.7348445E+050				.2916000E+08	.6666667E+02	
.4082483E+000		0.	.1338258E+040		.1458000E+060				0.
0.	0.	0.	.3083000E+00						0.

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

```

CASE NUMBER 169 GROUP NUMBER 1
.2828427E+01 .565854E+03 .2000000E+03 .2828427E+03 .1414214E+01 .9428090E+000 .7290000E+03
.3233333E+000 .4000000E+05 .1131371E+040 .0 .2916000E+08 .6666667E+02
.4716045E+000 .0 .3298000E+00 .1458000E+060 .0
0 .0
CASE NUMBER 170 GROUP NUMBER 1
.3952847E+01 .7905894E+03 .2000000E+03 .3182278E+03 .1581139E+01 .3137616E+010 .7290000E+03
.3233333E+000 .4000000E+05 .1581139E+040 .0 .2916000E+08 .6666667E+02
.5270463E+000 .0 .3539000E+00 .1458000E+060 .0
0 .0
CASE NUMBER 171 GROUP NUMBER 1
.5196152E+01 .1039230E+04 .2000000E+03 .3464102E+03 .1732051E+01 .1732051E+010 .7290000E+03
.3233333E+000 .4000000E+05 .2078461E+040 .0 .2916000E+08 .6666667E+02
.5772503E+000 .0 .3787995E+040 .1458000E+060 .0
0 .0
CASE NUMBER 172 GROUP NUMBER 1
.5439132E+01 .1091823E+04 .2000000E+03 .3521383E+03 .1760682E+01 .1819371E+010 .7290000E+03
.3233333E+000 .4000000E+05 .2182245E+040 .0 .2916000E+08 .6666667E+02
.5808939E+000 .0 .3884000E+00 .1458000E+060 .0
0 .0
CASE NUMBER 173 GROUP NUMBER 1
.5726334E+01 .1144867E+04 .2000000E+03 .3577708E+03 .1788854E+01 .1908111E+010 .7290000E+03
.3233333E+000 .4000000E+05 .2289734E+040 .0 .2916000E+08 .6666667E+02
.5962848E+000 .0 .4173040E+040 .1458000E+060 .0
0 .0
CASE NUMBER 174 GROUP NUMBER 1
.0 .0 .2000000E+030 .0 .0 .0 .1000000E+04
.3162278E+000 .0 .4000000E+050 .0 .0 .4000000E+08 .6324555E+02
0 .0 .2619000E+00 .2000000E+060 .0
0 .0
CASE NUMBER 175 GROUP NUMBER 1
.3535534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .3118034E+000 .1000000E+04
.3162278E+000 .4000000E+05 .1414214E+050 .0 .4000000E+08 .6324555E+02
.2238068E+000 .0 .3535534E+030 .2000000E+060 .0
0 .0
CASE NUMBER 176 GROUP NUMBER 1
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .3182278E+000 .1000000E+04
.3162278E+000 .4000000E+05 .4000000E+050 .0 .4000000E+08 .6324555E+02
.3182278E+000 .0 .1000000E+040 .2000000E+060 .0
0 .0

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 177
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5809475E+000 1000000E+04
3162278E+000 4000000E+05 7348489E+050 0 4000000E+08 6324555E+02
3872983E+000 0 0 3180000E+00 2000000E+060 0 0
0 0 0 0 0 0 0
CASE NUMBER 178
2828427E+01 5656854E+03 2000000E+03 2828427E+03 1414214E+01 8944272E+000 1000000E+04
3162278E+000 4000000E+05 131271E+080 0 4000000E+08 6324555E+02
4472136E+000 0 0 2828427E+040 2000000E+060 0 0
0 0 0 3382000E+00 0 0 0
CASE NUMBER 179
3852847E+01 7905894E+03 2000000E+03 3162278E+03 1581139E+01 1250000E+010 1000000E+04
3162278E+000 4000000E+05 1581139E+080 0 4000000E+08 6324555E+02
5000000E+000 0 0 3852847E+040 2000000E+060 0 0
0 0 0 3635000E+00 0 0 0
CASE NUMBER 180
4192374E+01 8384748E+03 2000000E+03 3224903E+03 1612452E+01 1325745E+010 1000000E+04
3162278E+000 4000000E+05 1678950E+080 0 4000000E+08 6324555E+02
5099020E+000 0 0 4192374E+040 2000000E+060 0 0
0 0 0 3696000E+00 0 0 0
CASE NUMBER 181
4438555E+01 8873105E+03 2000000E+03 3286335E+03 1642148E+01 1402981E+010 1000000E+04
3162278E+000 4000000E+05 1774621E+080 0 4000000E+08 6324555E+02
5194152E+000 0 0 4438555E+040 2000000E+060 0 0
0 0 0 3754000E+00 0 0 0
CASE NUMBER 182
4385298E+01 9370592E+03 2000000E+03 3346640E+03 1673320E+01 1481621E+010 1000000E+04
3162278E+000 4000000E+05 1874118E+080 0 4000000E+08 6324555E+02
5291503E+000 0 0 4695286E+040 2000000E+060 0 0
0 0 0 3815000E+00 0 0 0
CASE NUMBER 183
4938522E+01 9877944E+03 2000000E+03 3405877E+03 1702938E+01 1561698E+010 1000000E+04
3162278E+000 4000000E+05 1975409E+080 0 4000000E+08 6324555E+02
5385165E+000 0 0 4938522E+040 2000000E+060 0 0
0 0 0 3878000E+00 0 0 0
CASE NUMBER 184
2886751E+000 2000000E+030 0 0 0 0 1728000E+04
0 4000000E+050 0 0 0 0 5773503E+02
0 0 0 2691000E+00 0 0 0
0 0 0 0 0 0 0

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 185
3535534E+00 7071088E+02 2000000E+03 1414214E+03 7071088E+00 1020421E+000 1728000E+04
2886751E+000 4000000E+05 1414214E+050 0 4000000E+08 5773503E+02
2041241E+000 0 0 6109403E+030 3456000E+060 0 0
0 0 0 2887000E+00 0 0 0
CASE NUMBER 186
1000000E+01 2000000E+03 2000000E+03 2000000E+03 1000000E+01 2886751E+000 1728000E+04
2886751E+000 4000000E+05 4000000E+030 0 4000000E+08 5773503E+02
2886751E+000 0 0 1728000E+040 3456000E+060 0 0
0 0 0 3083000E+00 0 0 0
CASE NUMBER 187
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5202301E+000 1728000E+04
2886751E+000 4000000E+05 7348489E+050 0 4000000E+08 5773503E+02
3535534E+000 0 0 3174539E+040 3456000E+060 0 0
0 0 0 3304000E+00 0 0 0
CASE NUMBER 188
2828427E+01 5656854E+03 2000000E+03 2828427E+03 1414214E+01 8184968E+000 1728000E+04
2886751E+000 4000000E+05 1131271E+080 0 4000000E+08 5773503E+02
4082483E+000 0 0 4887322E+040 3456000E+060 0 0
0 0 0 3550000E+00 0 0 0
CASE NUMBER 189
3043189E+01 6086378E+03 2000000E+03 2898275E+03 1449138E+01 8784930E+000 1728000E+04
2886751E+000 4000000E+05 1212727E+080 0 4000000E+08 5773503E+02
4183300E+000 0 0 5258831E+040 3456000E+060 0 0
0 0 0 3805000E+00 0 0 0
CASE NUMBER 190
3263127E+01 6526255E+03 2000000E+03 2864478E+03 1483240E+01 8419837E+000 1728000E+04
2886751E+000 4000000E+05 1305251E+080 0 4000000E+08 5773503E+02
4261744E+000 0 0 5828684E+040 3456000E+060 0 0
0 0 0 3861000E+00 0 0 0
CASE NUMBER 191
3489123E+01 6878245E+03 2000000E+03 3023150E+03 1516575E+01 1008934E+010 1728000E+04
2886751E+000 4000000E+05 1295249E+080 0 4000000E+08 5773503E+02
4377975E+000 0 0 6027476E+040 3456000E+060 0 0
0 0 0 3715000E+00 0 0 0
CASE NUMBER 192
3718064E+01 7436126E+03 2000000E+03 3098387E+03 1549193E+01 1072312E+010 1728000E+04
2886751E+000 4000000E+05 1487226E+080 0 4000000E+08 5773503E+02
4477128E+000 0 0 6424815E+040 3456000E+060 0 0
0 0 0 3779000E+00 0 0 0

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 192
1707447E-02 3414934E+00 2000000E-03 2390456E-02 1195228E+00 4484028E-030 3048625E-04
2626129E+000 4000000E-05 6829688E-020 0 1219450E-09 5252257E-02
3138623E-010 0 2821000E-00 6097250E-060 0
0 0
CASE NUMBER 194
3335534E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 8284787E-010 3048625E-04
2626129E+000 4000000E-05 1414214E-050 0 1219450E-09 5252257E-02
1858953E-000 0 1077852E-040 6097250E-060 0
0 0 3033000E-00
CASE NUMBER 195
1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 2626129E+000 3048625E-04
2626129E+000 4000000E-05 4000000E-050 0 1219450E-09 5252257E-02
2626129E+000 0 3048625E-040 6097250E-060 0
0 0 2236000E-00
CASE NUMBER 196
1837117E-01 3674235E-03 2000000E-03 2448490E-03 1224745E-01 4824506E-000 3048625E-04
2626129E+000 4000000E-05 7348489E-050 0 1219450E-09 5252257E-02
3218338E-000 0 5600832E-040 6097250E-060 0
0 0 3477000E-00
CASE NUMBER 197
2023858E-01 4047715E-03 2000000E-03 2529822E-03 1264911E-01 5314911E-000 3048625E-04
2626129E+000 4000000E-05 8095431E-050 0 1219450E-09 5252257E-02
3321819E-000 0 6189983E-040 6097250E-060 0
0 0 3529000E-00
CASE NUMBER 198
2218529E-01 4433058E-03 2000000E-03 2607681E-03 1303840E-01 5820490E-000 3048625E-04
2626129E+000 4000000E-05 8986115E-050 0 1219450E-09 5252257E-02
3424053E-000 0 6757365E-040 6097250E-060 0
0 0 3584000E-00
CASE NUMBER 199
2414953E-01 4829807E-03 2000000E-03 2683262E-03 1341641E-01 6341978E-000 3048625E-04
2626129E+000 4000000E-05 9658814E-050 0 1219450E-09 5252257E-02
3523231E-000 0 7362287E-040 6097250E-060 0
0 0 3641000E-00
CASE NUMBER 200
0 0 5000000E-020 0 0 3430000E-03
1779645E+000 2500000E-040 5832000E-04 6803361E-01 8575000E-06 1889822E-02
0 0 1800000E-020 0 1715000E-050 0
0 0 2616000E-06 3057000E-00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 201
3535534E-00 1747767E-02 5000000E-02 3535534E-02 7071068E-00 1236306E-00 1272792E-02 3430000E-03
3779645E+00 6363961E-01 2500000E-04 8838835E-03 5832000E-04 6803361E-01 8575000E-06 1889822E-02
2672612E+00 4123847E-04 1800000E-02 1212688E-03 3181881E-03 1715000E-05 1580890E-05 2061823E-04
6363961E-03 3181881E-05 2916000E-06 3284000E-00
CASE NUMBER 202
1000000E-01 5000000E-02 5000000E-02 5000000E-02 1000000E-01 3779645E+00 1800000E-02 3430000E-03
3779645E+00 1800000E-02 2500000E-04 2500000E-04 5832000E-04 6803361E-01 8575000E-06 1889822E-02
3779645E+00 5832000E-04 1800000E-02 3430000E-03 8000000E-03 1715000E-05 4500000E-05 5832000E-04
5000000E-03 4500000E-05 2916000E-06 3476000E-00
CASE NUMBER 203
938400E-01 9882039E-03 5000000E-02 4232117E-02 1248423E-01 7318934E-00 2243563E-02 3430000E-03
3779645E+00 3485534E-02 2500000E-04 4841020E-04 5832000E-04 6803361E-01 8575000E-06 1889822E-02
4711039E-00 7269142E-04 1800000E-02 6841879E-03 1742767E-04 1715000E-05 8713835E-05 1129313E-05
1121781E-04 5608905E-05 2916000E-06 3715000E-00
CASE NUMBER 204
2628427E-01 1414214E-03 5000000E-02 7071068E-02 1414214E-01 1089045E-01 2545584E-02 3430000E-03
3779645E+00 5091169E-02 2500000E-04 7071068E-04 5832000E-04 6803361E-01 8575000E-06 1889822E-02
5345225E+00 8247893E-04 1800000E-02 9701505E-03 2545584E-04 1715000E-05 1272792E-02 1649539E-05
172792E-04 5363961E-05 2916000E-06 3930000E-00
CASE NUMBER 205
3981115E-01 1990558E-03 5000000E-02 7924485E-02 1584699E-01 1504720E-01 2852818E-02 3430000E-03
3779645E+00 7166008E-02 2500000E-04 9952788E-04 5832000E-04 6803361E-01 8575000E-06 1889822E-02
5990355E-00 8743131E-04 1800000E-02 3365221E-04 3583004E-04 1715000E-05 1791502E-06 2321786E-05
1426409E-04 7132045E-05 2916000E-06 4240000E-00
CASE NUMBER 206
5196152E-01 2598076E-03 5000000E-02 8660254E-02 1732051E-01 1963961E-01 3117691E-02 3430000E-03
3779645E+00 9353974E-02 2500000E-04 1299038E-05 5832000E-04 6803361E-01 8575000E-06 1889822E-02
8846527E-00 1010132E-05 1800000E-02 1782280E-04 4678537E-04 1715000E-05 2338269E-06 3030366E-05
558846E-04 7794229E-05 2916000E-06 4592000E-00
CASE NUMBER 207
8547900E-01 3273959E-03 5000000E-02 8354143E-02 1870828E-01 2474874E-01 3387493E-02 3430000E-03
3779645E+00 1178822E-03 2500000E-04 1636975E-05 5832000E-04 6803361E-01 8575000E-06 1889822E-02
7071068E-00 1091067E-05 1800000E-02 2245930E-04 5893110E-04 1715000E-05 2946555E-06 3818736E-05
1682746E-04 8418729E-05 2916000E-06 4919000E-00
CASE NUMBER 208
8000000E-01 4000000E-03 5000000E-02 1000000E-03 2000000E-01 1023716E-01 3600000E-02 3430000E-03
3779645E+00 1448000E-03 2500000E-04 2000000E-05 5832000E-04 6803361E-01 8575000E-06 1889822E-02
7889289E-00 1188400E-05 1800000E-02 2744900E-04 7200000E-04 1715000E-05 3800000E-06 4845600E-05
1800000E-04 9000000E-05 2916000E-06 5292000E-00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 209
GROUP NUMBER 2
3501867E-01 -4150834E-03 -5000000E-02 -1012423E-02 -2024848E-01 -3127811E-01 -3644722E-02 -3430000E-03
3779645E-00 -1494336E-02 -2500000E-04 -2075467E-05 -5832000E-04 -6803361E-01 -8575000E-06 -1889822E-02
7853197E-00 -1180890E-05 -1800000E-02 -2847540E-04 -7471681E-04 -1715000E-05 -3735840E-06 -4841449E-05
1822361E-04 -3111806E-05 -2916000E-06 -5419000E-00
CASE NUMBER 210
GROUP NUMBER 2
8607439E-01 -4202715E-02 -5000000E-02 -1024895E-02 -2049390E-01 -3253306E-01 -3688902E-02 -3430000E-03
3779645E-00 -1548339E-02 -2500000E-04 -2151860E-05 -5832000E-04 -6803361E-01 -8575000E-06 -1889822E-02
7745867E-00 -1185204E-05 -1800000E-02 -2952351E-04 -7746895E-04 -1715000E-05 -3873347E-06 -5019858E-05
864451E-04 -2222556E-05 -2916000E-06 -5488000E-00
CASE NUMBER 211
GROUP NUMBER 2
8816670E-01 -4458335E-02 -5000000E-02 -1036822E-03 -2073644E-01 -3370184E-01 -3732558E-02 -3430000E-03
3779645E-00 -1605001E-03 -2500000E-04 -2229147E-05 -5832000E-04 -6803361E-01 -8575000E-06 -1889822E-02
7827638E-00 -1209349E-05 -1800000E-02 -3058418E-04 -8025003E-04 -1715000E-05 -4012501E-06 -5200202E-05
1866280E-04 -9231399E-05 -2916000E-06 -5498000E-00
CASE NUMBER 212
GROUP NUMBER 2
0 0 -5000000E-020 0 0 0 0 7290000E-03
3333333E-000 2500000E-040 5832000E-04 6000000E-01 1822500E-07 1668667E-02
0 0 -1800000E-020 0 0 0 0 0
0 0 -2916000E-06 3094000E-00 3645000E-050 0 0
CASE NUMBER 213
GROUP NUMBER 2
3535534E-00 -1767767E-02 -5000000E-02 -3535534E-02 -7071068E-00 -1178511E-00 -1272782E-02 -7290000E-03
3333333E-00 -4263991E-01 -2500000E-04 -8838835E-03 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
2357023E-00 -4122847E-04 -1800000E-02 -2577404E-02 -3181981E-03 -3645000E-05 -1590990E-05 -2061923E-04
6363961E-03 -2181981E-05 -2916000E-06 -3344000E-00
CASE NUMBER 214
GROUP NUMBER 2
1000000E-01 -5000000E-02 -5000000E-02 -5000000E-02 -1000000E-01 -3333333E-00 -1800000E-02 -7290000E-03
3333333E-00 -1800000E-02 -2500000E-04 -2500000E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
3333333E-00 -5832000E-04 -1800000E-02 -7290000E-03 -9000000E-03 -3645000E-05 -4500000E-05 -5832000E-04
9000000E-03 -9500000E-05 -2916000E-06 -3620000E-00
CASE NUMBER 215
GROUP NUMBER 2
1837117E-01 -9185587E-02 -5000000E-02 -6123724E-02 -1224745E-01 -6123724E-00 -2204541E-02 -7290000E-03
3333333E-00 -3304811E-02 -2500000E-04 -4582783E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
4082487E-00 -7142712E-04 -1800000E-02 -1339259E-04 -1653406E-04 -3645000E-05 -8267028E-05 -1071407E-05
1102270E-04 -5511352E-05 -2916000E-06 -3920000E-00
CASE NUMBER 216
GROUP NUMBER 2
2828627E-01 -1414214E-03 -5000000E-02 -7071068E-02 -1414214E-01 -9428090E-00 -2545584E-02 -7290000E-03
3333333E-00 -5091169E-02 -2500000E-04 -7071068E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
4714045E-00 -3247883E-04 -1800000E-02 -2061823E-04 -2545584E-04 -3645000E-05 -1272782E-06 -1649539E-05
1272782E-04 -6363961E-05 -2916000E-06 -4220000E-00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 217
GROUP NUMBER 2
3952847E-01 -1976424E-03 -5000000E-02 -7905894E-02 -1581139E-01 -317616E-01 -2846050E-02 -7290000E-03
3333333E-00 -715125E-02 -2500000E-04 -9882118E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
5270463E-00 -8221202E-04 -1800000E-02 -2881626E-04 -3557562E-04 -3645000E-05 -1778781E-06 -2305300E-05
1423025E-04 -7115125E-05 -2916000E-06 -4502000E-00
CASE NUMBER 218
GROUP NUMBER 2
5196152E-01 -2588076E-03 -5000000E-02 -8680254E-02 -1732051E-01 -1732051E-01 -3117881E-02 -7290000E-03
3333333E-00 -9353074E-02 -2500000E-04 -1288038E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
5772503E-00 -1010132E-05 -1800000E-02 -3787955E-04 -4676537E-04 -3645000E-05 -2328268E-06 -3070386E-05
1558848E-04 -7794229E-05 -2916000E-06 -4854000E-00
CASE NUMBER 219
GROUP NUMBER 2
6547900E-01 -3273950E-03 -5000000E-02 -9354143E-02 -1870828E-01 -2182633E-01 -3267492E-02 -7290000E-03
3333333E-00 -1178822E-03 -2500000E-04 -1636975E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6226098E-00 -1091047E-05 -1800000E-02 -4772419E-04 -5983110E-04 -3645000E-05 -2946555E-06 -3818766E-05
1683746E-04 -8418729E-05 -2916000E-06 -5235000E-00
CASE NUMBER 220
GROUP NUMBER 2
8830520E-01 -3415280E-03 -5000000E-02 -9486832E-02 -1897367E-01 -2276840E-01 -3415280E-02 -7290000E-03
3333333E-00 -1229494E-03 -2500000E-04 -1707830E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6324555E-00 -1106544E-05 -1800000E-02 -4979449E-04 -6147468E-04 -3645000E-05 -3072734E-06 -3983559E-05
1707630E-04 -8538150E-05 -2916000E-06 -5439000E-00
CASE NUMBER 221
GROUP NUMBER 2
7117092E-01 -3558546E-03 -5000000E-02 -9817682E-02 -1923538E-01 -2372364E-01 -3462348E-02 -7290000E-03
3333333E-00 -1281077E-03 -2500000E-04 -1779273E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6411795E-00 -1121808E-05 -1800000E-02 -5188260E-04 -8405383E-04 -3645000E-05 -3202691E-06 -4150888E-05
1731185E-04 -8655923E-05 -2916000E-06 -5494000E-00
CASE NUMBER 222
GROUP NUMBER 2
7407564E-01 -3702782E-03 -5000000E-02 -9746794E-02 -1948359E-01 -2469188E-01 -3508846E-02 -7290000E-03
3333333E-00 -1333261E-03 -2500000E-04 -1851881E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
8497863E-00 -1136866E-05 -1800000E-02 -5400114E-04 -6684807E-04 -3645000E-05 -3333404E-06 -4320001E-05
1754423E-04 -877215E-05 -2916000E-06 -5302000E-00
CASE NUMBER 223
GROUP NUMBER 2
0 0 -5000000E-020 0 0 0 0 1000000E-04
3162278E-000 2500000E-040 5832000E-04 5892100E-01 2500000E-07 1581139E-02
0 0 -1800000E-020 0 0 0 0 0
0 0 -2916000E-06 3174000E-00 3645000E-050 0 0
CASE NUMBER 224
GROUP NUMBER 2
3535534E-00 -1767767E-02 -5000000E-02 -3535534E-02 -7071068E-00 -1118034E-00 -1272782E-02 -7290000E-03
3162278E-00 -6363961E-01 -2500000E-04 -8838835E-03 -5832000E-04 -5892100E-01 -2500000E-07 -1581139E-02
2236068E-00 -4123847E-04 -1800000E-02 -3535534E-03 -3181981E-03 -3645000E-05 -1590990E-05 -2061923E-04
8282981E-03 -3181981E-05 -2916000E-06 -3455000E-00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 223	GROUP NUMBER 2
1000000E-01	5000000E-02
3162278E-00	1800000E-02
3162278E-00	5832000E-04
3162278E-00	5832000E-04
9000000E-03	4500000E-05
CASE NUMBER 226	GROUP NUMBER 2
1837117E-01	5185587E-02
3162278E-00	3308811E-02
3872983E-00	7142712E-04
1102270E-04	5511352E-05
CASE NUMBER 227	GROUP NUMBER 2
2830041E-01	1465021E-03
3162278E-00	5274074E-02
4525062E-00	8345303E-04
1287855E-04	6439277E-05
CASE NUMBER 228	GROUP NUMBER 2
4066322E-01	2033161E-03
3162278E-00	7319379E-02
5047294E-00	9308608E-04
1438514E-04	7182568E-05
CASE NUMBER 229	GROUP NUMBER 2
3198152E-01	2598078E-03
3162278E-00	9353074E-02
5477282E-00	1010132E-05
1588846E-04	7794228E-05
CASE NUMBER 230	GROUP NUMBER 2
6547800E-01	3273950E-03
3162278E-00	1178422E-02
5816080E-00	1091067E-05
1683748E-04	848728E-05
CASE NUMBER 231	GROUP NUMBER 2
6820520E-01	3415260E-03
3162278E-00	1228494E-02
6000000E-00	1106544E-05
1707630E-04	8538150E-05
CASE NUMBER 232	GROUP NUMBER 2
0.	0.
2886751E-000	2500000E-040
0.	0.
0.	0.
0.	0.

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 233	GROUP NUMBER 2
3535534E-00	1767767E-02
2886751E-00	6333861E-01
2041241E-00	4123847E-04
8282961E-03	3181981E-05
CASE NUMBER 234	GROUP NUMBER 2
1000000E-01	5000000E-02
2886751E-00	1800000E-02
2886751E-00	5832000E-04
9000000E-03	4500000E-05
CASE NUMBER 235	GROUP NUMBER 2
1781103E-01	8805524E-02
2886751E-00	3169989E-02
2486082E-00	7042809E-04
1086853E-04	5434268E-05
CASE NUMBER 236	GROUP NUMBER 2
2715548E-01	1357775E-03
2886751E-00	4887988E-02
4027438E-00	8136484E-04
1255630E-04	6270151E-05
CASE NUMBER 237	GROUP NUMBER 2
3952847E-01	1976424E-03
2886751E-00	7115125E-02
4584355E-00	9221202E-04
1423025E-04	7115125E-05
CASE NUMBER 238	GROUP NUMBER 2
4192374E-01	2096187E-03
2886751E-00	7548272E-02
4654747E-00	9403817E-04
1491206E-04	7256032E-05
CASE NUMBER 239	GROUP NUMBER 2
4428553E-01	2218278E-03
2886751E-00	7985795E-02
8743418E-00	9582954E-04
1478993E-04	7594255E-05
CASE NUMBER 240	GROUP NUMBER 2
4685298E-01	2343848E-03
2886751E-00	8433533E-02
4820459E-00	8758802E-04
1505988E-04	7529949E-05

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 241
4938522E+01 2448261E+03 5000000E+02 8514693E+02 1702938E+01 1425629E+01 3065280E+02 1728000E+04
2886751E+00 8889340E+02 2500000E+04 1234631E+05 5822000E+04 5186152E+01 4320000E+07 1442376E+02
4915960E+00 9831538E+04 1800000E+02 8533786E+04 4444670E+04 8640000E+05 222235E+06 2880146E+05
1532645E+04 766224E+05 2916000E+06 5257000E+00
CASE NUMBER 242
5186152E+01 2598078E+03 5000000E+02 8660254E+02 1732051E+01 1500000E+01 3117891E+02 1728000E+04
2886751E+00 8889340E+02 2500000E+04 1234631E+05 5822000E+04 5186152E+01 4320000E+07 1442376E+02
5000000E+00 1010132E+05 1800000E+02 8578951E+04 4676537E+04 8640000E+05 222235E+06 2880146E+05
1532645E+04 766224E+05 2916000E+06 5361000E+00
CASE NUMBER 243
0 0 5000000E+020 0 0 0 3048625E+04
2626129E+00 2500000E+040 5822000E+04 4727032E+01 7621562E+07 1313064E+02
0 0 1800000E+020 0 1524313E+06 0
0 0 2916000E+06 3532000E+00
CASE NUMBER 244
3535534E+00 1767767E+02 5000000E+02 3535534E+02 7071068E+00 8284767E+01 1272792E+02 3048625E+04
2626129E+00 422847E+04 2500000E+04 8838935E+03 5822000E+04 4727032E+01 7621562E+07 1313064E+02
1858953E+00 4123847E+04 1800000E+02 1077852E+04 3181981E+03 1524313E+06 1589890E+05 2061923E+04
6363861E+03 3181981E+05 2916000E+06 3807000E+00
CASE NUMBER 245
1000000E+01 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2626129E+00 1800000E+02 3048625E+04
2626129E+00 1800000E+02 2500000E+04 2500000E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
2626129E+00 5822000E+04 1800000E+02 3048625E+04 9000000E+02 1524313E+06 4500000E+05 5822000E+04
5000000E+03 4500000E+05 2916000E+06 4070000E+00
CASE NUMBER 246
1837117E+01 8185587E+02 5000000E+02 6123724E+02 1224745E+01 4824508E+00 2204541E+02 3048625E+04
2626129E+00 3306811E+02 2500000E+04 4592793E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3215338E+00 7142712E+04 1800000E+02 5600682E+04 1851408E+04 1524313E+06 8267028E+05 1071407E+05
1102270E+04 5511352E+05 2916000E+06 4382000E+00
CASE NUMBER 247
2828427E+01 1414214E+03 5000000E+02 7071068E+02 1414214E+01 7427814E+00 2545584E+02 3048625E+04
2626129E+00 5091169E+02 2500000E+04 7071068E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3713807E+00 8247853E+04 1800000E+02 8622814E+04 2545584E+04 1524313E+06 1272792E+02 1648529E+05
1272792E+04 8623861E+05 2916000E+06 4759000E+00
CASE NUMBER 248
3042189E+01 1521589E+03 5000000E+02 7245688E+02 1449138E+01 7891808E+00 2688448E+02 3048625E+04
2626129E+00 5877740E+02 2500000E+04 7607973E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3805622E+00 8451271E+04 1800000E+02 8277542E+04 2728870E+04 1524313E+06 1389435E+06 1774788E+05
1304224E+04 6521120E+05 2916000E+06 4854000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 249
3283127E+01 1531544E+03 5000000E+02 7416198E+02 1483240E+01 6569792E+00 2688931E+02 3048625E+04
2626129E+00 5873829E+02 2500000E+04 8157818E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3885178E+00 8650254E+04 1800000E+02 9946052E+04 2926875E+04 1524313E+06 1488607E+06 1903056E+05
1334816E+04 6874578E+05 2916000E+06 4938000E+00
CASE NUMBER 250
3488123E+01 1744061E+03 5000000E+02 7582875E+02 1516575E+01 8160258E+00 2729835E+02 3048625E+04
2626129E+00 6278621E+02 2500000E+04 8720307E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3982721E+00 8844666E+04 1800000E+02 1063398E+05 3139310E+04 1524313E+06 1569655E+06 2034273E+05
1364818E+04 6824588E+05 2916000E+06 5022000E+00
CASE NUMBER 251
3718064E+01 1858932E+03 5000000E+02 7745947E+02 1549195E+01 8764114E+00 2788548E+02 3048625E+04
2626129E+00 6692515E+02 2500000E+04 9295140E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
4068381E+00 9024896E+04 1800000E+02 1123498E+05 3146258E+04 1524313E+06 1673128E+06 2168275E+05
1294274E+04 6971370E+05 2916000E+06 5103000E+00
CASE NUMBER 252
3932847E+01 1976424E+03 5000000E+02 7905694E+02 1581139E+01 1038068E+01 2846050E+02 3048625E+04
2626129E+00 7115125E+02 2500000E+04 9882118E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
4152274E+00 9221202E+04 1800000E+02 1205075E+05 3557562E+04 1524313E+06 1778781E+06 2305300E+05
1423025E+04 7115125E+05 2916000E+06 5189000E+00
CASE NUMBER 253
0 0 0 0 0 0 3430000E+03
3779645E+00 0 0 5822000E+04 6803361E+010 0 0
0 0 1800000E+020 0 0 0
0 0 2948000E+00
CASE NUMBER 254
3535534E+00 0 0 7071068E+00 738208E+00 1272792E+02 3430000E+03
3779645E+00 6363861E+010 0 5822000E+04 6803361E+010 0
2672612E+00 4123847E+04 1800000E+02 1212688E+030 0 0 2061923E+04
0 0 3048000E+00
CASE NUMBER 255
1028095E+010 0 0 1008889E+01 3881338E+00 1816000E+02 3430000E+03
3779645E+00 6692515E+020 0 5822000E+04 6803361E+010 0 0
3813242E+00 5883841E+04 1800000E+02 3522284E+030 0 0 5888908E+04
0 0 3275000E+00
CASE NUMBER 256
1837117E+010 0 0 1224745E+01 6947651E+00 2204541E+02 3430000E+03
3779645E+00 3306811E+020 0 5822000E+04 6803361E+010 0 0
4629100E+00 7142712E+04 1800000E+02 6301312E+030 0 0 1071407E+05
0 0 3474000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 257
0. 0. 1414214E+01 1058045E+01 2545584E+02 3430000E+03
3779645E+00 5091169E+02 0. 5832000E+04 6803361E+010 0.
5345225E+00 824763E+04 1800000E+02 5701505E+030 0. 1649539E+05
0 0. 3734000E+00
CASE NUMBER 258
0. 0. 1581138E+01 1494036E+01 2846050E+02 3430000E+03
3779645E+00 7115125E+020 0. 5832000E+04 6803361E+010 0.
5976143E+00 9221202E+04 1800000E+02 1355827E+040 0. 2305300E+05
0 0. 2855000E+00
CASE NUMBER 259
0. 0. 1732051E+01 1983961E+01 3117691E+02 3430000E+03
3779645E+00 9353074E+020 0. 5832000E+04 6803361E+010 0.
6546537E+00 1010132E+05 1800000E+02 1782280E+040 0. 3030396E+05
0 0. 4261000E+00
CASE NUMBER 260
0. 0. 1877181E+01 2500170E+01 3378926E+02 3430000E+03
3779645E+00 1190668E+030 0. 5832000E+04 6803361E+010 0.
7095078E+00 1094772E+05 1800000E+02 2268886E+040 0. 3857768E+05
0 0. 4579000E+00
CASE NUMBER 261
0. 0. 2000000E+01 2022718E+01 3600000E+02 3430000E+03
3779645E+00 1440000E+030 0. 5832000E+04 6803361E+010 0.
7559289E+00 1166400E+05 1800000E+02 2744000E+040 0. 4665600E+05
0 0. 4896000E+00
CASE NUMBER 262
0. 0. 2024646E+01 2137811E+01 3644722E+02 3430000E+03
3779645E+00 1494336E+030 0. 5832000E+04 6803361E+010 0.
7653197E+00 1180890E+05 1800000E+02 2847540E+040 0. 4841649E+05
0 0. 4955000E+00
CASE NUMBER 263
0. 0. 0. 0. 0. 7290000E+03
3333333E+00 0. 0. 5832000E+04 6000000E+010 0.
0. 0. 1800000E+020 0. 0.
0. 0. 2848000E+00
CASE NUMBER 264
0. 0. 7071068E+00 1178511E+00 1272792E+02 7290000E+03
3333333E+00 6383961E+010 0. 5832000E+04 6000000E+010 0.
2357021E+00 4122847E+04 1800000E+02 2577404E+030 0. 2081923E+04
0 0. 3197000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 265
0. 0. 1000000E+01 3333333E+00 1800000E+02 7290000E+03
3333333E+00 1800000E+020 0. 5832000E+04 6000000E+010 0.
3333333E+00 5832000E+04 1800000E+02 3450000E+030 0. 5832000E+04
0 0. 3445000E+00
CASE NUMBER 266
0. 0. 1224745E+01 6123794E+00 2204541E+02 7290000E+03
3333333E+00 3306811E+020 0. 5832000E+04 6000000E+010 0.
4082483E+00 7142712E+04 1800000E+02 1335259E+040 0. 1071407E+05
0 0. 3664000E+00
CASE NUMBER 267
0. 0. 1414214E+01 9420800E+00 2545584E+02 7290000E+03
3333333E+00 5091169E+020 0. 5832000E+04 6000000E+010 0.
4714045E+00 824763E+04 1800000E+02 2061823E+040 0. 1649539E+05
0 0. 3913000E+00
CASE NUMBER 268
0. 0. 1581138E+01 1317618E+01 2846050E+02 7290000E+03
3333333E+00 7115125E+020 0. 5832000E+04 6000000E+010 0.
5270463E+00 9221202E+04 1800000E+02 2881628E+040 0. 2305300E+05
0 0. 4213000E+00
CASE NUMBER 269
0. 0. 1732051E+01 1732051E+01 3117691E+02 7290000E+03
3333333E+00 9353074E+020 0. 5832000E+04 6000000E+010 0.
5773503E+00 1010132E+05 1800000E+02 3787895E+040 0. 3030396E+05
0 0. 4571000E+00
CASE NUMBER 270
0. 0. 1870828E+01 2182633E+01 3367482E+02 7290000E+03
3333333E+00 1178622E+030 0. 5832000E+04 6000000E+010 0.
6236096E+00 1091067E+05 1800000E+02 4773419E+040 0. 3818736E+05
0 0. 4912000E+00
CASE NUMBER 271
0. 0. 1887387E+01 2278840E+01 3415260E+02 7290000E+03
3333333E+00 1229494E+030 0. 5832000E+04 6000000E+010 0.
6324555E+00 1106344E+05 1800000E+02 4979449E+040 0. 3983559E+05
0 0. 4987000E+00
CASE NUMBER 272
0. 0. 0. 0. 0. 1000000E+04
3162278E+000 0. 0. 5832000E+04 5892100E+010 0.
0. 0. 1800000E+020 0. 0.
0 0. 3015000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 273
3535534E+000 0. 0. 0. 7071068E+00 1118034E+00 1272792E+02 1000000E+04
3162278E+00 6363961E+010 0. 0. 5832000E+04 5692100E+010 0. 0.
2236068E+00 4123847E+04 1800000E+02 3525534E+030 0. 0. 0. 2081923E+04
0. 0. 0. 3269000E+00 0. 0. 0. 0.
CASE NUMBER 274
1000000E+010 0. 0. 0. 1000000E+01 3162278E+00 1800000E+02 1000000E+04
3162278E+00 1800000E+020 0. 0. 5832000E+04 5692100E+010 0. 0.
3162278E+00 5832000E+04 1800000E+02 1000000E+040 0. 0. 0. 5832000E+04
0. 0. 0. 3505000E+00 0. 0. 0. 0.
CASE NUMBER 275
1837117E+010 0. 0. 0. 1224745E+01 5809475E+00 2204541E+02 1000000E+04
3162278E+00 3306811E+020 0. 0. 5832000E+04 5692100E+010 0. 0.
3872983E+00 7142712E+04 1800000E+02 1837117E+040 0. 0. 0. 1071407E+05
0. 0. 0. 3730000E+00 0. 0. 0. 0.
CASE NUMBER 276
2828427E+010 0. 0. 0. 1414214E+01 8944272E+00 2545584E+02 1000000E+04
3162278E+00 5091189E+020 0. 0. 5832000E+04 5692100E+010 0. 0.
4472136E+00 8247693E+04 1800000E+02 2828427E+040 0. 0. 0. 1649539E+05
0. 0. 0. 4019000E+00 0. 0. 0. 0.
CASE NUMBER 277
3552847E+010 0. 0. 0. 1581139E+01 1250000E+01 2846050E+02 1000000E+04
3162278E+00 7115125E+020 0. 0. 5832000E+04 5692100E+010 0. 0.
5000000E+00 5221202E+04 1800000E+02 3552847E+040 0. 0. 0. 2305300E+05
0. 0. 0. 4310000E+00 0. 0. 0. 0.
CASE NUMBER 278
5196152E+010 0. 0. 0. 1732051E+01 1642168E+01 3117691E+02 1000000E+04
3162278E+00 9352074E+020 0. 0. 5832000E+04 5692100E+010 0. 0.
5477226E+00 1010132E+05 1800000E+02 5196152E+040 0. 0. 0. 3030396E+05
0. 0. 0. 4652000E+00 0. 0. 0. 0.
CASE NUMBER 279
5458113E+010 0. 0. 0. 1760882E+01 1726007E+01 3169227E+02 1000000E+04
3162278E+00 9824604E+020 0. 0. 5832000E+04 5692100E+010 0. 0.
5567764E+00 1026830E+05 1800000E+02 5458113E+040 0. 0. 0. 3183172E+05
0. 0. 0. 4722000E+00 0. 0. 0. 0.
CASE NUMBER 280
5724334E+010 0. 0. 0. 1788854E+01 1810193E+01 3219938E+02 1000000E+04
3162278E+00 1030380E+030 0. 0. 5832000E+04 5692100E+010 0. 0.
5656854E+00 1042260E+05 1800000E+02 5724334E+040 0. 0. 0. 3338432E+05
0. 0. 0. 4816000E+00 0. 0. 0. 0.

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 281
5994748E+010 0. 0. 0. 1816580E+01 1895706E+01 3269862E+02 1000000E+04
3162278E+00 1079055E+030 0. 0. 5832000E+04 5692100E+010 0. 0.
5746543E+00 1059435E+05 1800000E+02 5994748E+040 0. 0. 0. 3496137E+05
0. 0. 0. 4901000E+00 0. 0. 0. 0.
CASE NUMBER 282
2886751E+000 0. 0. 0. 0. 0. 0. 1728000E+04
0. 0. 0. 0. 0. 0. 0. 0.
0. 0. 1800000E+020 0. 0. 5832000E+04 5196152E+010 0. 0.
0. 0. 0. 3116000E+00 0. 0. 0. 0.
CASE NUMBER 283
3535534E+000 0. 0. 0. 0. 7071068E+00 1020621E+00 1272792E+02 1728000E+04
2886751E+00 6363961E+010 0. 0. 5832000E+04 5196152E+010 0. 0.
2041241E+00 4123847E+04 1800000E+02 3535534E+030 0. 0. 0. 2081923E+04
0. 0. 0. 3365000E+00 0. 0. 0. 0.
CASE NUMBER 284
1000000E+010 0. 0. 0. 0. 1000000E+01 2886751E+00 1800000E+02 1728000E+04
2886751E+00 1800000E+020 0. 0. 5832000E+04 5196152E+010 0. 0.
2886751E+00 5832000E+04 1800000E+02 1728000E+040 0. 0. 0. 5832000E+04
0. 0. 0. 3633000E+00 0. 0. 0. 0.
CASE NUMBER 285
1837117E+010 0. 0. 0. 0. 1224745E+01 5302301E+00 2204541E+02 1728000E+04
2886751E+00 3306811E+020 0. 0. 5832000E+04 5196152E+010 0. 0.
3535534E+00 7142712E+04 1800000E+02 1837117E+040 0. 0. 0. 1071407E+05
0. 0. 0. 3809000E+00 0. 0. 0. 0.
CASE NUMBER 286
2828427E+010 0. 0. 0. 0. 1414214E+01 8164966E+00 2545584E+02 1728000E+04
2886751E+00 5091189E+020 0. 0. 5832000E+04 5196152E+010 0. 0.
4082482E+00 8247693E+04 1800000E+02 2828427E+040 0. 0. 0. 1649539E+05
0. 0. 0. 4195000E+00 0. 0. 0. 0.
CASE NUMBER 287
3552847E+010 0. 0. 0. 0. 1581139E+01 1141089E+01 2846050E+02 1728000E+04
2886751E+00 7115125E+020 0. 0. 5832000E+04 5196152E+010 0. 0.
4564355E+00 5221202E+04 1800000E+02 3552847E+040 0. 0. 0. 2305300E+05
0. 0. 0. 4522000E+00 0. 0. 0. 0.
CASE NUMBER 288
4192274E+010 0. 0. 0. 0. 1612452E+01 1210224E+01 2802413E+02 1728000E+04
2886751E+00 7546273E+020 0. 0. 5832000E+04 5196152E+010 0. 0.
4854747E+00 9402817E+04 1800000E+02 4192274E+040 0. 0. 0. 2444893E+05
0. 0. 0. 4597000E+00 0. 0. 0. 0.

```


NADC-77036-30

FRIDAY, JUL 2, 1976

[illegible]

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 297
.3263127E+010 0. 0. .1463240E-01 .8569382E+00 2646931E+02 .3048625E+04
.2626129E+00 .5873629E+020 . 0. .5822000E-04 .4727032E+010 0.
.2895178E+00 .8650254E-04 .1000000E+02 .8948052E+040 0. 0. .1903056E+03
0. 0. 0. .4563000E-00
CASE NUMBER 298
0. 0. .1000000E+030 0. 0. 0. .3430000E+03
.3779845E+000 0. .1000000E+050 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
0. 0. .1800000E+020 . 0. .3430000E+030 0.
0. 0. .5822000E-06 .2613000E+00
CASE NUMBER 299
0. 0. 0. 0. 0. 0. 0.
.3535534E+00 .3535534E-02 .1000000E+03 .7071068E+02 .1336306E+00 .1272792E+02 .3430000E+03
.3779845E+00 .6363861E+01 .1000000E+05 .3522475E+04 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
.2872612E+00 .4123847E+04 .1000000E+02 .1272683E+03 .6363861E+03 .3430000E+05 .6363861E+05 .2061923E+04
.1272792E-04 .1272792E-06 .5822000E-06 .2780000E+00
CASE NUMBER 300
0. 0. 0. 0. 0. 0. 0.
.1800000E+01 .1000000E+03 .1000000E+03 .1000000E+03 .1000000E+01 .3779845E+01 .1800000E+02 .3430000E+03
.3779845E+00 .8080000E-02 .1000000E+05 .1000000E+01 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
.3779845E+00 .5822000E-04 .1800000E+02 .3430000E+05 .1800000E+04 .3430000E+05 .1800000E+06 .3779845E+02
.1800000E+04 .1000000E+06 .5822000E-06 .2955000E+00
CASE NUMBER 301
0. 0. 0. 0. 0. 0. 0.
.1837117E+01 .1837117E-03 .1000000E+03 .1224745E+03 .1224745E+01 .6843651E+00 .2204541E+02 .3430000E+03
.3779845E+00 .3306811E+02 .1000000E+05 .1837117E+05 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
.6829100E+00 .7142712E+04 .1800000E+02 .6301312E+03 .3306811E-04 .3430000E+05 .3306811E+06 .1071407E+05
.2204541E+04 .2204541E+06 .5822000E-06 .3128000E+00
CASE NUMBER 302
0. 0. 0. 0. 0. 0. 0.
.5828427E+01 .2828427E+03 .1000000E+05 .1418214E+03 .1418214E+01 .1084545E+01 .2545584E+02 .3430000E+03
.3779845E+00 .5081169E+02 .1000000E+05 .2828427E+05 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
.5345235E+00 .8247683E+04 .1800000E+02 .9701505E+03 .5081169E+04 .3430000E+05 .5081169E+06 .1649539E+05
.2545584E+04 .2545584E+06 .5822000E-06 .3331000E+00
CASE NUMBER 303
0. 0. 0. 0. 0. 0. 0.
.3952847E+01 .3952847E+03 .1000000E+05 .1581139E+03 .1581139E+01 .1494036E+01 .2846050E+02 .3430000E+03
.3779845E+00 .7115125E+02 .1000000E+05 .3552847E+05 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
.5876183E+00 .9221202E+04 .1800000E+02 .1355827E+04 .7115125E+04 .3430000E+05 .7115125E+06 .2305300E+05
.2846050E+04 .2846050E+06 .5822000E-06 .3347000E+00
CASE NUMBER 304
0. 0. 0. 0. 0. 0. 0.
.5196152E+01 .5196152E+03 .1000000E+05 .1732051E+03 .1732051E+01 .1858961E+01 .3779845E+02 .3430000E+03
.3779845E+00 .9353074E+02 .1000000E+05 .5196152E+05 .5822000E-04 .6803361E+01 .3430000E+07 .3779845E+02
.4546537E+00 .1010132E+05 .1800000E+02 .1782280E+04 .9353074E+04 .3430000E+05 .9353074E+06 .3030386E+05
.3117691E+04 .3117691E+06 .5822000E-06 .3805000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER		GROUP NUMBER	
0.	305	2	
5547980E+01	6347980E+03	1000000E+03	1870829E+03
1870829E+03	1870829E+03	1870829E+03	1870829E+03
3377845E+00	1178622E+03	1000000E+05	5832000E+04
5832000E+04	5832000E+04	5832000E+04	5832000E+04
7071645E+00	1091067E+05	1800000E+02	2245830E+04
2245830E+04	2245830E+04	2245830E+04	2245830E+04
3367492E+04	3367492E+06	5832000E+06	4117600E+00
4117600E+00	4117600E+00	4117600E+00	4117600E+00
CASE NUMBER	306	GROUP NUMBER	2
6830320E+01	6830320E+03	1000000E+03	1897387E+03
1897387E+03	1897387E+03	1897387E+03	1897387E+03
3377845E+00	128494E+03	1000000E+05	5832000E+04
5832000E+04	5832000E+04	5832000E+04	5832000E+04
7171372E+01	1085440E+05	1800000E+02	2342888E+04
2342888E+04	2342888E+04	2342888E+04	2342888E+04
3615240E+04	3615240E+06	5832000E+06	4117100E+00
4117100E+00	4117100E+00	4117100E+00	4117100E+00
CASE NUMBER	307	GROUP NUMBER	2
7117082E+01	7117082E+03	1000000E+03	1923538E+03
1923538E+03	1923538E+03	1923538E+03	1923538E+03
3377845E+00	1281077E+03	1000000E+05	5832000E+04
5832000E+04	5832000E+04	5832000E+04	5832000E+04
7270292E+00	1121808E+05	1800000E+02	2441163E+04
2441163E+04	2441163E+04	2441163E+04	2441163E+04
3462369E+04	3462369E+06	5832000E+06	4238000E+00
4238000E+00	4238000E+00	4238000E+00	4238000E+00
CASE NUMBER	308	GROUP NUMBER	2
7407564E+01	7407564E+03	1000000E+03	1949359E+03
1949359E+03	1949359E+03	1949359E+03	1949359E+03
3377845E+00	1333361E+03	1000000E+05	5832000E+04
5832000E+04	5832000E+04	5832000E+04	5832000E+04
7387888E+00	128968E+05	1800000E+02	2540794E+04
2540794E+04	2540794E+04	2540794E+04	2540794E+04
3508845E+04	3508845E+06	5832000E+06	4292000E+00
4292000E+00	4292000E+00	4292000E+00	4292000E+00
CASE NUMBER	309	GROUP NUMBER	2
7701883E+01	7701883E+03	1000000E+03	1974842E+03
1974842E+03	1974842E+03	1974842E+03	1974842E+03
3377845E+00	1386339E+03	1000000E+05	5832000E+04
5832000E+04	5832000E+04	5832000E+04	5832000E+04
7484200E+00	1151728E+05	1800000E+02	2641746E+04
2641746E+04	2641746E+04	2641746E+04	2641746E+04
3554715E+04	3554715E+06	5832000E+06	4258000E+00
4258000E+00	4258000E+00	4258000E+00	4258000E+00
CASE NUMBER	310	GROUP NUMBER	2
0.	0.	1000000E+030	0.
3333333E+000	0.	5832000E+04	6000000E+05
6000000E+05	6000000E+05	6000000E+05	6000000E+05
0.	0.	1800000E+020	0.
0.	0.	5832000E+06	2711000E+00
2711000E+00	2711000E+00	2711000E+00	2711000E+00
CASE NUMBER	311	GROUP NUMBER	2
3555534E+00	5535534E+02	1000000E+05	7071048E+04
7071048E+04	7071048E+04	7071048E+04	7071048E+04
3333333E+00	6383961E+01	1000000E+05	5832000E+04
5832000E+04	5832000E+04	5832000E+04	5832000E+04
2357023E+00	4123847E+04	1800000E+02	2577404E+03
2577404E+03	2577404E+03	2577404	

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
1837117E-01	1837117E-03	1000000E-03	1224745E-03	1224745E-01	8123734E-00	2204541E-02	7290000E-03
3333333E-00	3306811E-02	1000000E-05	1837117E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
4082483E-02	7142712E-04	1800000E-02	3329259E-04	3306811E-04	7290000E-05	3306811E-06	1714671E-05
2204541E-04	2204541E-06	5832000E-06	3278000E+00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
2828427E-01	2828427E-03	1000000E-03	1414214E-03	1414214E-01	9428090E-00	2845584E-02	7290000E-03
3333333E-00	5091169E-02	1000000E-05	2828427E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
4082483E-02	8247691E-04	1800000E-02	3561922E-04	5091169E-04	7290000E-05	5091169E-06	1648539E-05
2845584E-04	2845584E-06	5832000E-06	3501900E-00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
3952847E-01	3952847E-03	1000000E-03	1581138E-03	1581138E-01	1317616E-01	2846050E-02	7290000E-03
3333333E-00	7115125E-02	1000000E-05	3952847E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
5270483E-00	9221202E-04	1800000E-02	2681626E-04	7115125E-04	7290000E-05	7115125E-06	2305300E-05
1848050E-04	2846050E-06	5832000E-06	3763000E+00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
3198152E-01	3198152E-03	1000000E-03	1732051E-03	1732051E-01	1732051E-01	3117691E-02	7290000E-03
3333333E-00	9353074E-02	1000000E-05	3198152E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
3775203E-00	1013725E-05	1800000E-02	3775203E-04	9353074E-04	7290000E-05	9353074E-06	3030396E-05
3117691E-04	3117691E-06	5832000E-06	4070200E+00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
3458113E-01	3458113E-03	1000000E-03	1760682E-03	1760682E-01	1819371E-01	3168227E-02	7290000E-03
3333333E-00	9824604E-02	1000000E-05	3458113E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
3868939E-02	1020830E-05	1800000E-02	3978935E-04	9824604E-04	7290000E-05	9824604E-06	318127E-05
3168227E-04	3168227E-06	5832000E-06	4139000E+00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
3724351E-01	3724351E-03	1000000E-03	1780854E-03	1780854E-01	1808711E-01	3218038E-02	7290000E-03
3333333E-00	1024960E-05	1800000E-02	3724351E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
5832000E-00	1043230E-05	1800000E-02	4173040E-04	1020380E-05	7290000E-05	1020380E-07	3338432E-05
3219928E-04	3219928E-06	5832000E-06	4212000E+00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
5994748E-01	5994748E-03	1000000E-03	1816590E-03	1816590E-01	1998249E-01	3289662E-02	7290000E-03
3333333E-00	1079055E-02	1000000E-05	5994748E+05	5832000E-04	6000000E-01	7290000E-07	3333333E-02
6053301E-00	1059435E-05	1800000E-02	4237017E-04	1079055E-05	7290000E-05	1079055E-07	3496137E-05
3289662E-04	3289662E-06	5832000E-06	4784000E+00				
CASE	NUMBER	GROUP	NUMBER	CASE	NUMBER	GROUP	NUMBER
0	0	1000000E-020	0	0	0	1000000E-04	0
3142278E-000	0	1000000E-030	0	5832000E-04	5832000E-01	1000000E-08	3142278E-000
0	0	1800000E-020	0	0			

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 321
353534E+00 353534E+02 1000000E+03 7071068E+02 7071068E+00 118034E+00 1272792E+02 1000000E+04
3162278E+00 6363961E+01 1000000E+05 353534E+04 5832000E+04 5892100E+01 1000000E+08 3162278E+02
2236668E+00 4123047E+04 1800000E+02 353534E+03 6363961E+03 1000000E+06 6363961E+05 2061923E+04
1272792E+04 1272792E+06 5832000E+04 2958000E+00

CASE NUMBER 322
1000000E+01 1000000E+03 1000000E+05 1000000E+07 1000000E+09 1000000E+01 3162278E+00 1800000E+02 1000000E+04
3162278E+00 1800000E+02 1000000E+05 1000000E+07 1000000E+09 5832000E+04 5892100E+01 1000000E+08 3162278E+02
3162278E+00 5832000E+04 1800000E+02 1000000E+05 1000000E+07 1000000E+09 1800000E+06 1800000E+08 5832000E+04
1800000E+04 1800000E+06 5832000E+08 3141000E+00

CASE NUMBER 323
1837117E+01 1837117E+03 1000000E+05 1224745E+03 1224745E+01 3409475E+00 2204541E+02 1000000E+04
3162278E+00 2306811E+02 1000000E+05 1837117E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
3872982E+00 7142712E+04 1800000E+02 1837117E+04 3306811E+04 1000000E+06 3306811E+06 1071407E+05
2204541E+04 2204541E+06 5832000E+06 3251000E+00

CASE NUMBER 324
2828427E+01 2828427E+03 1000000E+05 1414214E+03 1414214E+01 8944272E+00 2545584E+02 1000000E+04
3162278E+00 5091189E+02 1000000E+05 2828427E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
4472156E+00 8247693E+04 1800000E+02 2828427E+04 5091189E+04 1000000E+06 5091189E+06 1649539E+05
2545584E+04 2545584E+06 5832000E+06 3590000E+00

CASE NUMBER 325
3952847E+01 3952847E+03 1000000E+05 1581139E+03 1581139E+01 1250000E+01 2846050E+02 1000000E+04
3162278E+00 7115125E+02 1000000E+05 3952847E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
5000000E+00 9221202E+04 1800000E+02 3952847E+04 7115125E+04 1000000E+06 7115125E+06 2305300E+05
2846050E+04 2846050E+06 5832000E+06 3874000E+00

CASE NUMBER 326
4182374E+01 4182374E+03 1000000E+05 1612452E+03 1612452E+01 1229745E+01 2802413E+02 1000000E+04
3162278E+00 7548373E+02 1000000E+05 4182374E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
5090200E+00 9403817E+04 1800000E+02 4182374E+04 7548373E+04 1000000E+06 7548373E+06 2444892E+05
2802413E+04 2802413E+06 5832000E+06 3938000E+00

CASE NUMBER 327
4435532E+01 4435532E+03 1000000E+05 1643168E+03 1643168E+01 1402981E+01 2957702E+02 1000000E+04
3162278E+00 7985795E+02 1000000E+05 4435532E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
5196152E+00 9582954E+04 1800000E+02 4435532E+04 7985795E+04 1000000E+06 7985795E+06 2587388E+05
2957702E+04 2957702E+06 5832000E+06 4000000E+00

CASE NUMBER 328
4685296E+01 4685296E+03 1000000E+05 1673320E+03 1673320E+01 1481621E+01 3011876E+02 1000000E+04
3162278E+00 8435333E+02 1000000E+05 4685296E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
5291502E+00 9758003E+04 1800000E+02 4685296E+04 8435333E+04 1000000E+06 8435333E+06 2732465E+05
3011876E+04 3011876E+06 5832000E+06 4066000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 329
4938522E+01 4938522E+03 1000000E+05 1702639E+03 1702639E+01 1581189E+01 3065290E+02 1000000E+04
3162278E+00 8889340E+02 1000000E+05 4938522E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
5385145E+00 9521538E+04 1800000E+02 4938522E+04 8889340E+04 1000000E+06 8889340E+06 2880148E+05
3065290E+04 3065290E+06 5832000E+06 4135000E+00

CASE NUMBER 330
5196152E+01 5196152E+03 1000000E+05 1732051E+03 1732051E+01 1843168E+01 3117891E+02 1000000E+04
3162278E+00 9353074E+02 1000000E+05 5196152E+05 5832000E+04 5892100E+01 1000000E+08 3162278E+02
5477226E+00 1010132E+05 1800000E+02 5196152E+04 9353074E+04 1000000E+06 9353074E+06 3030286E+05
3117891E+04 3117891E+06 5832000E+06 4205000E+00

CASE NUMBER 331
0 0 1000000E+03 0 0 0 0 1728000E+04
0 0 1000000E+05 0 0 0 0 1728000E+02 2886751E+02
0 0 1800000E+02 0 0 0 0 1728000E+06 0
0 0 5832000E+06 2825000E+00

CASE NUMBER 332
353534E+00 353534E+02 1000000E+03 7071068E+02 7071068E+00 1020821E+00 1272792E+02 1728000E+04
2886751E+00 6363961E+01 1000000E+05 353534E+04 5832000E+04 5196152E+01 1728000E+08 2886751E+02
2061241E+00 4123047E+04 1800000E+02 6109403E+03 6363961E+03 1728000E+06 6262981E+05 2061923E+04
1272792E+04 1272792E+06 5832000E+06 3044000E+00

CASE NUMBER 333
1000000E+01 1000000E+03 1000000E+05 1000000E+07 1000000E+09 2886751E+00 1800000E+02 1728000E+04
2886751E+00 1800000E+02 1000000E+05 1000000E+07 1000000E+09 5832000E+04 5196152E+01 1728000E+08 2886751E+02
2886751E+00 5832000E+04 1800000E+02 1728000E+04 1800000E+06 1728000E+08 1800000E+06 5832000E+04
1800000E+04 1800000E+06 5832000E+08 3265000E+00

CASE NUMBER 334
1837117E+01 1837117E+03 1000000E+05 1224745E+03 1224745E+01 5303301E+00 2204541E+02 1728000E+04
2886751E+00 3306811E+02 1000000E+05 1837117E+05 5832000E+04 5196152E+01 1728000E+08 2886751E+02
353534E+00 7142712E+04 1800000E+02 3174538E+04 3306811E+04 1728000E+06 3306811E+06 1071407E+05
2204541E+04 2204541E+06 5832000E+06 3499000E+00

CASE NUMBER 335
2828427E+01 2828427E+03 1000000E+05 1414214E+03 1414214E+01 8184666E+00 2545584E+02 1728000E+04
2886751E+00 5091189E+02 1800000E+05 2828427E+05 5832000E+04 5196152E+01 1728000E+08 2886751E+02
4092483E+00 8247693E+04 1800000E+02 4887522E+04 5091189E+04 1728000E+06 5091189E+06 1649539E+05
2545584E+04 2545584E+06 5832000E+06 3773000E+00

CASE NUMBER 336
3043189E+01 3043189E+03 1000000E+05 1449138E+03 1449138E+01 8784930E+00 2608448E+02 1728000E+04
2886751E+00 5477740E+02 1000000E+05 3043189E+05 5832000E+04 5196152E+01 1728000E+08 2886751E+02
4182300E+00 8451271E+04 1800000E+02 5258531E+04 5477740E+04 1728000E+06 5477740E+06 1774789E+05
2608448E+04 2608448E+06 5832000E+06 3533000E+00

NADC-77036-30

FRIDAY, JUL 2, 1978

TRANSGENERATED

DATA INPUT

CASE NUMBER	327	GROUP NUMBER	2
3263127E-01	3263127E-03	1000000E-03	1483240E-03
2886751E-00	5873629E-02	1000000E-05	3263127E-05
4281744E-00	8850254E-04	1000000E-02	5638684E-04
2668831E-04	2668831E-06	5832000E-06	3895000E-00
CASE NUMBER	328	GROUP NUMBER	2
3488123E-01	3488123E-03	1000000E-03	1516575E-03
2886751E-00	6278621E-02	1000000E-05	3488123E-05
4377975E-00	8864686E-04	1000000E-02	6027476E-04
2729835E-04	2729835E-06	5832000E-06	3959000E-00
CASE NUMBER	329	GROUP NUMBER	2
3718064E-01	3718064E-03	1000000E-03	1549193E-03
2886751E-00	6692515E-02	1000000E-05	3718064E-05
4472136E-00	9034896E-04	1000000E-02	6424815E-04
2798548E-04	2798548E-06	5832000E-06	4026000E-00
CASE NUMBER	330	GROUP NUMBER	2
3552847E-01	3552847E-03	1000000E-03	1581139E-03
2886751E-00	7115125E-02	1000000E-05	3552847E-05
4544355E-00	9321202E-04	1000000E-02	6830520E-04
2846050E-04	2846050E-06	5832000E-06	4085000E-00
CASE NUMBER	341	GROUP NUMBER	2
0	0	1000000E-030	0
2628129E-000	0	1000000E-050	5832000E-04
0	0	1000000E-020	4727032E-01
0	0	5832000E-06	3048625E-06
CASE NUMBER	342	GROUP NUMBER	2
353534E-00	353534E-02	1000000E-03	7071068E-02
2626129E-00	6363961E-01	1000000E-05	353534E-05
1856953E-00	4123847E-04	1000000E-02	1077852E-04
1272792E-04	1272792E-06	5832000E-06	3172000E-00
CASE NUMBER	343	GROUP NUMBER	2
1000000E-01	1000000E-03	1000000E-03	1000000E-01
2626129E-00	1000000E-05	1000000E-05	5832000E-04
2626129E-00	5832000E-02	1000000E-02	3048625E-06
1000000E-04	1000000E-06	5832000E-06	3424000E-00
CASE NUMBER	344	GROUP NUMBER	2
1827117E-01	1827117E-03	1000000E-03	1224745E-03
2626129E-00	3206811E-02	1000000E-05	1827117E-05
3218338E-00	7142712E-04	1000000E-02	5600832E-04
2204541E-04	2204541E-06	5832000E-06	3691000E-00

FRIDAY, JUL 2, 1978

TRANSGENERATED

DATA INPUT

CASE NUMBER	345	GROUP NUMBER	2
2023858E-01	2023858E-03	1000000E-03	1264911E-03
2626129E-00	3642944E-02	1000000E-05	2023858E-05
3321819E-00	7376961E-04	1000000E-02	6169193E-04
2276840E-04	2276840E-06	5832000E-06	3750000E-00
CASE NUMBER	346	GROUP NUMBER	2
2216529E-01	2216529E-03	1000000E-03	1302840E-02
2626129E-00	3988752E-02	1000000E-05	2216529E-05
3424053E-00	7602399E-04	1000000E-02	6757265E-04
2248913E-04	2248913E-06	5832000E-06	3811000E-00
CASE NUMBER	347	GROUP NUMBER	2
2614953E-01	2614953E-03	1000000E-03	1341841E-02
2626129E-00	4346916E-02	1000000E-05	2614953E-05
3523231E-00	7824449E-04	1000000E-02	7382287E-04
2414953E-04	2414953E-06	5832000E-06	3873000E-00
CASE NUMBER	348	GROUP NUMBER	2
2818989E-01	2818989E-03	1000000E-03	1378405E-02
2626129E-00	4716145E-02	1000000E-05	2818989E-05
3619869E-00	8028957E-04	1000000E-02	7994235E-04
2481129E-04	2481129E-06	5832000E-06	3937000E-00
CASE NUMBER	349	GROUP NUMBER	2
0	0	2000000E-030	0
3779645E-000	0	4000000E-050	5832000E-04
0	0	1000000E-020	6803361E-01
0	0	1166400E-07	6860000E-050
CASE NUMBER	350	GROUP NUMBER	2
353534E-00	7071068E-02	2000000E-03	1414214E-03
3779645E-00	6363961E-01	4000000E-05	1414214E-05
2672612E-00	4123847E-04	1000000E-02	1212688E-03
2545584E-04	5891169E-06	1166400E-07	2555000E-00
CASE NUMBER	351	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
3779645E-00	1000000E-02	4000000E-05	5832000E-04
3779645E-00	5832000E-04	1000000E-02	3430000E-03
3600000E-04	7200000E-06	1166400E-07	2705000E-00
CASE NUMBER	352	GROUP NUMBER	2
1827117E-01	1827117E-03	2000000E-03	2449490E-03
3779645E-00	3206811E-02	4000000E-05	7248469E-05
4629100E-00	7142712E-04	1000000E-02	6201312E-03
4409092E-04	6818162E-06	1166400E-07	2883000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	353	GROUP NUMBER	2
2828427E-01	5856854E-03	2000000E-03	2828427E-03
3779645E-00	5091168E-02	4000000E-05	1131371E-06
5345225E-00	8247693E-04	1800000E-02	9701505E-03
5091168E-04	1018234E-07	1166400E-07	3042000E-00
CASE NUMBER	354	GROUP NUMBER	2
3952847E-01	7905894E-03	2000000E-03	3162278E-03
3779645E-00	7115125E-02	4000000E-05	1581139E-06
5976143E-00	8221202E-04	1800000E-02	1355827E-04
5682100E-04	1138420E-07	1166400E-07	3253000E-00
CASE NUMBER	355	GROUP NUMBER	2
5196152E-01	1039230E-04	2000000E-03	3484102E-03
3779645E-00	8253074E-02	4000000E-05	2078461E-06
6546537E-00	1010132E-05	1800000E-02	1782280E-04
6235383E-04	1247077E-07	1166400E-07	3308000E-00
CASE NUMBER	356	GROUP NUMBER	2
6547800E-01	1309580E-04	2000000E-03	3741657E-03
3779645E-00	1178622E-03	4000000E-05	2619160E-06
7071082E-00	1091047E-05	1800000E-02	2245930E-04
6734982E-04	1346997E-07	1166400E-07	3797000E-00
CASE NUMBER	357	GROUP NUMBER	2
6830520E-01	1366104E-04	2000000E-03	3794733E-03
3779645E-00	1229444E-03	4000000E-05	2722208E-06
7171372E-00	1106544E-05	1800000E-02	2342868E-04
6830520E-04	1366104E-07	1166400E-07	3849000E-00
CASE NUMBER	358	GROUP NUMBER	2
7117082E-01	1423418E-04	2000000E-03	3847077E-03
3779645E-00	1210777E-03	4000000E-05	2846837E-06
7270282E-00	1121800E-05	1800000E-02	2441163E-04
6924738E-04	1324948E-07	1166400E-07	3905000E-00
CASE NUMBER	359	GROUP NUMBER	2
0.	0.	2000000E-030	0.
3333333E-000	0.	4000000E-050	5832000E-04
0.	0.	1800000E-020	6000000E-01
0.	0.	0.	2916000E-08
CASE NUMBER	360	GROUP NUMBER	2
0.	0.	1166400E-07	2521000E-00
0.	0.	0.	0.
0.	0.	0.	0.
CASE NUMBER	361	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3333333E-00	6363861E-01	4000000E-05	1414214E-05
2357023E-00	4123847E-04	1800000E-02	2577404E-03
2545584E-04	5091168E-06	1166400E-07	2651000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	361	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-03
3333333E-00	4000000E-05	4000000E-05	5832000E-04
3333333E-00	5832000E-04	1800000E-02	3600000E-04
3600000E-04	7200000E-06	1166400E-07	2819000E-00
CASE NUMBER	362	GROUP NUMBER	2
1837117E-01	3674235E-03	2000000E-03	2449490E-03
3333333E-00	3306811E-02	4000000E-05	7348468E-05
4082483E-00	7142712E-04	1800000E-02	1339258E-04
4409082E-04	8818163E-06	1166400E-07	3009000E-00
CASE NUMBER	363	GROUP NUMBER	2
2828427E-01	5856854E-03	2000000E-03	2828427E-03
3333333E-00	5091168E-02	4000000E-05	1131371E-06
4714045E-00	8247693E-04	1800000E-02	2081823E-04
5091168E-04	1018234E-07	1166400E-07	3228000E-00
CASE NUMBER	364	GROUP NUMBER	2
3952847E-01	7905894E-03	2000000E-03	3162278E-03
3333333E-00	7115125E-02	4000000E-05	1581139E-06
5270463E-00	8221202E-04	1800000E-02	1355827E-04
5682100E-04	1138420E-07	1166400E-07	3472000E-00
CASE NUMBER	365	GROUP NUMBER	2
5196152E-01	1039230E-04	2000000E-03	3484102E-03
3333333E-00	8253074E-02	4000000E-05	2078461E-06
5773503E-00	1010132E-05	1800000E-02	1782280E-04
6235383E-04	1247077E-07	1166400E-07	3761000E-00
CASE NUMBER	366	GROUP NUMBER	2
5458113E-01	1091823E-04	2000000E-03	3521363E-03
3333333E-00	9824604E-02	4000000E-05	2182245E-06
3668938E-00	1026830E-05	1800000E-02	3978965E-04
6238454E-04	1267897E-07	1166400E-07	3824000E-00
CASE NUMBER	367	GROUP NUMBER	2
0.	0.	2000000E-030	0.
3162278E-000	0.	4000000E-050	5832000E-04
0.	0.	1800000E-020	6000000E-01
0.	0.	0.	2000000E-060
CASE NUMBER	368	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3162278E-00	6363861E-01	4000000E-05	1414214E-05
2356068E-00	4123847E-04	1800000E-02	3535534E-03
2545584E-04	5091168E-06	1166400E-07	2701000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	385	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
2626128E-00	1800000E-02	4000000E-05	5832000E-04
2626128E-00	5832000E-04	1800000E-02	3048625E-04
3600000E-04	7200000E-06	1166400E-07	3173000E-09
CASE NUMBER	386	GROUP NUMBER	2
1037117E-01	3674233E-03	2000000E-03	2448490E-05
2626128E-00	3306811E-02	4000000E-05	7348468E-05
3216338E-00	7142712E-04	1800000E-02	5600682E-04
4409082E-04	8818163E-06	1166400E-07	3419000E-00
CASE NUMBER	387	GROUP NUMBER	2
2023858E-01	4047715E-03	2000000E-03	2529822E-03
2626128E-00	3642944E-02	4000000E-05	8095431E-05
3221819E-00	7376961E-04	1800000E-02	6169983E-04
4553680E-04	9107360E-06	1166400E-07	3475000E-00
CASE NUMBER	388	GROUP NUMBER	2
0	0	5000000E-020	0
1779645E-000	0	2500000E-040	0
0	0	3600000E-020	0
0	0	2332800E-07	2938000E-00
CASE NUMBER	389	GROUP NUMBER	2
3535534E-00	1767767E-02	5000000E-02	3535534E-02
1779645E-00	1272792E-02	2500000E-04	8828835E-03
2672612E-00	3299077E-05	3600000E-02	1212688E-03
1272792E-04	6383961E-05	2332800E-07	3129000E-00
CASE NUMBER	390	GROUP NUMBER	2
1000000E-01	5000000E-02	5000000E-02	5000000E-02
1779645E-00	3600000E-02	2500000E-04	2500000E-04
1779645E-00	4665600E-05	3600000E-02	3430000E-03
1800000E-04	9000000E-05	2332800E-07	3347000E-00
CASE NUMBER	391	GROUP NUMBER	2
1925200E-01	9628448E-02	5000000E-02	6220167E-02
1779645E-00	6931043E-02	2500000E-04	4812224E-04
4702004E-00	5804162E-05	3600000E-02	6603744E-03
2239260E-04	1119630E-06	2332800E-07	3605000E-00
CASE NUMBER	392	GROUP NUMBER	2
2828427E-01	1414214E-03	5000000E-02	7071068E-02
1779645E-00	1018234E-03	2500000E-04	7071068E-04
3345225E-00	6598155E-05	3600000E-02	9701505E-03
2545584E-04	1272792E-06	2332800E-07	3864000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	393	GROUP NUMBER	2
1952847E-01	9784242E-03	5000000E-02	7905696E-02
1779645E-00	1423025E-03	2500000E-04	9882118E-04
5976143E-00	7376961E-05	3600000E-02	1355827E-04
2846050E-04	1423025E-06	2332800E-07	4193000E-00
CASE NUMBER	394	GROUP NUMBER	2
5196152E-01	2598078E-03	5000000E-02	8660254E-02
1779645E-00	1870615E-03	2500000E-04	1299038E-05
5546537E-00	8081058E-05	3600000E-02	1782280E-04
3117891E-04	1558846E-06	2332800E-07	4488000E-00
CASE NUMBER	395	GROUP NUMBER	2
6547900E-01	3273950E-03	5000000E-02	9354143E-02
1779645E-00	2357244E-03	2500000E-04	1626975E-05
7071068E-00	8728538E-05	3600000E-02	2245930E-04
3367492E-04	1683746E-06	2332800E-07	4844000E-00
CASE NUMBER	396	GROUP NUMBER	2
8000000E-01	4000000E-03	5000000E-02	1000000E-03
1779645E-00	2880000E-03	2500000E-04	2000000E-05
7535289E-00	9331209E-05	3600000E-02	2744000E-04
2600000E-04	1800000E-06	2332800E-07	5174000E-00
CASE NUMBER	397	GROUP NUMBER	2
8301867E-01	4150934E-03	5000000E-02	1012423E-03
1779645E-00	2988672E-03	2500000E-04	2075447E-05
7652197E-00	9447120E-05	3600000E-02	2847540E-04
3644722E-04	1822261E-06	2332800E-07	5285000E-00
CASE NUMBER	398	GROUP NUMBER	2
8607439E-01	4303719E-03	5000000E-02	1024695E-03
1779645E-00	3698679E-03	2500000E-04	2151860E-05
774967E-00	9561635E-05	3600000E-02	2952351E-04
2888902E-04	1844651E-06	2332800E-07	5401000E-00
CASE NUMBER	399	GROUP NUMBER	2
0	0	5000000E-020	0
3333333E-000	0	2500000E-040	0
0	0	3600000E-020	0
0	0	2332800E-07	3018000E-00
CASE NUMBER	400	GROUP NUMBER	2
3535534E-00	1767767E-02	5000000E-02	3535534E-02
3333333E-00	1272792E-02	2500000E-04	8828835E-03
2357022E-00	3299077E-05	3600000E-02	1212688E-03
1272792E-04	6383961E-05	2332800E-07	3129000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	401	GROUP NUMBER	2
1000000E-01	5000000E-02	5000000E-02	1000000E-02
3333333E-00	2500000E-04	2500000E-04	4665600E-05
3333333E-00	4665600E-05	3600000E-02	1822500E-07
1800000E-04	8000000E-05	2332800E-07	3556000E-00
CASE NUMBER	402	GROUP NUMBER	2
1837117E-01	8185587E-02	5000000E-02	6123724E-02
3333333E-00	6613622E-02	2500000E-04	4592793E-04
4082483E-00	5714170E-05	3600000E-02	1339259E-04
2204541E-04	1102270E-06	2332800E-07	3848000E-00
CASE NUMBER	403	GROUP NUMBER	2
2828427E-01	1414214E-03	5000000E-02	7071068E-02
3333333E-00	1018234E-03	2500000E-04	7071068E-04
4714043E-00	6598155E-05	3600000E-02	2061923E-04
2545584E-04	1272782E-06	2332800E-07	4131000E-00
CASE NUMBER	404	GROUP NUMBER	2
3952847E-01	1976424E-03	5000000E-02	7905694E-02
3333333E-00	1422025E-02	2500000E-04	8882118E-04
5270463E-00	7376981E-05	3600000E-02	2881626E-04
2846050E-04	1423025E-06	2332800E-07	4395000E-00
CASE NUMBER	405	GROUP NUMBER	2
5196152E-01	2598076E-03	5000000E-02	8660254E-02
3333333E-00	1870615E-03	2500000E-04	1299038E-05
5773503E-00	8081056E-05	3600000E-02	3787992E-04
3117691E-04	1558846E-06	2332800E-07	4778000E-00
CASE NUMBER	406	GROUP NUMBER	2
6547900E-01	3273950E-03	5000000E-02	9354143E-02
3333333E-00	2357244E-03	2500000E-04	1628975E-05
6238096E-00	8728528E-05	3600000E-02	4773418E-04
3367892E-04	1683746E-06	2332800E-07	5189000E-00
CASE NUMBER	407	GROUP NUMBER	2
6830520E-01	3415260E-03	5000000E-02	9486833E-02
3333333E-00	2458887E-03	2500000E-04	1707830E-05
6324555E-00	8852354E-05	3600000E-02	4979448E-04
3415260E-04	1707630E-06	2332800E-07	5215000E-00
CASE NUMBER	408	GROUP NUMBER	2
0	0	5000000E-020	0
3162278E-000	0	2500000E-040	0
0	0	3600000E-020	0
0	0	2332800E-07	3108000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	409	GROUP NUMBER	2
3325534E-00	1757767E-02	5000000E-02	3535534E-02
3162278E-00	1272782E-02	2500000E-04	8882118E-04
2236048E-00	3299077E-05	3600000E-02	3535534E-03
1272782E-04	8263961E-05	2332800E-07	3382000E-00
CASE NUMBER	410	GROUP NUMBER	2
1000000E-01	5000000E-02	5000000E-02	1000000E-01
3162278E-00	3600000E-02	2500000E-04	4665600E-05
3162278E-00	4665600E-05	3600000E-02	1800000E-04
1800000E-04	5000000E-05	2332800E-07	2846000E-00
CASE NUMBER	411	GROUP NUMBER	2
1837117E-01	8185587E-02	5000000E-02	6123724E-02
3162278E-00	6613622E-02	2500000E-04	4592793E-04
3872983E-00	5714170E-05	3600000E-02	1837117E-04
2204541E-04	1102270E-06	2332800E-07	3954000E-00
CASE NUMBER	412	GROUP NUMBER	2
2778070E-01	1289035E-03	5000000E-02	7071068E-02
3162278E-00	1000105E-03	2500000E-04	8945175E-04
4445436E-00	6598155E-05	3600000E-02	2778070E-04
250387E-04	1265183E-06	2332800E-07	4210000E-00
CASE NUMBER	413	GROUP NUMBER	2
3952847E-01	1976424E-03	5000000E-02	7905694E-02
3162278E-00	1422025E-02	2500000E-04	8882118E-04
5000000E-00	7376981E-05	3600000E-02	2952847E-04
2846050E-04	1423025E-06	2332800E-07	4528000E-00
CASE NUMBER	414	GROUP NUMBER	2
5196152E-01	2598076E-03	5000000E-02	8660254E-02
3162278E-00	1870615E-03	2500000E-04	1299038E-05
5477295E-00	8081056E-05	3600000E-02	3787992E-04
3117691E-04	1558846E-06	2332800E-07	4953000E-00
CASE NUMBER	415	GROUP NUMBER	2
5458113E-01	2729057E-03	5000000E-02	8902408E-02
3162278E-00	1964921E-03	2500000E-04	1344528E-05
5567764E-00	8214636E-05	3600000E-02	5458113E-04
3169227E-04	1584614E-06	2332800E-07	5054000E-00
CASE NUMBER	416	GROUP NUMBER	2
5726334E-01	2662167E-03	5000000E-02	8944272E-02
3162278E-00	2068780E-03	2500000E-04	1831084E-05
5684854E-00	9246079E-05	3600000E-02	5726334E-04
3219938E-04	1608969E-06	2332800E-07	5147000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 417
5994748E+01 2997374E+03 5000000E+02 8082851E+02 1816580E+01 1895706E+01 6539725E+02 1000000E+04
3182278E+00 2158109E+03 2500000E+04 1498687E+03 4665600E+05 1138420E+02 2500000E+07 1581138E+02
5744563E+00 8475483E+05 3600000E+02 5994748E+04 1079055E+05 5000000E+05 5395273E+06 2796908E+06
3289862E+04 1634931E+06 2332800E+07 5232000E+00
CASE NUMBER 418
5263280E+01 3134645E+03 5000000E+02 8219544E+02 1843909E+01 1982524E+01 6438072E+02 1000000E+04
3182278E+00 2258944E+03 2500000E+04 1567323E+05 4665600E+05 1138420E+02 2500000E+07 1581138E+02
5830952E+00 8602941E+05 3600000E+02 6268290E+04 1128472E+05 5000000E+05 5642361E+06 2825000E+06
3319036E+04 1658518E+06 2332800E+07 5332000E+00
CASE NUMBER 419
0 0 5000000E+020 0 0 0 1728000E+04
2886751E+000 2500000E+040 4665600E+05 1038230E+02 4320000E+07 1443376E+02
0 0 3600000E+020 0 0 0
0 0 2332800E+07 3263000E+00
CASE NUMBER 420
3525534E+00 1767767E+02 5000000E+02 3515534E+02 7071068E+00 1020621E+00 2545584E+02 1728000E+04
2886751E+00 1272792E+02 2500000E+04 8828835E+03 4665600E+05 1038230E+02 4320000E+07 1443376E+02
2041241E+00 3298077E+05 3600000E+02 6109403E+03 6363961E+03 8640000E+05 3181981E+05 1649538E+05
1272792E+04 163981E+05 2332800E+07 3538000E+00
CASE NUMBER 421
1000000E+01 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2886751E+00 3600000E+02 1728000E+04
2886751E+00 3600000E+02 2500000E+04 2500000E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02
2886751E+00 4665600E+05 3600000E+02 1728000E+04 1800000E+04 8640000E+05 8000000E+05 4665600E+05
1800000E+04 9000000E+05 2332800E+07 3820000E+00
CASE NUMBER 422
1837117E+01 9185587E+02 5000000E+02 6123724E+02 1224745E+01 5303301E+00 4409082E+02 1728000E+04
2886751E+00 6613622E+02 2500000E+04 4582793E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02
3535534E+00 5714170E+05 3600000E+02 3174539E+04 2306811E+04 8640000E+05 1653406E+06 8571255E+05
2204541E+04 1102270E+06 2332800E+07 4092000E+00
CASE NUMBER 423
2828427E+01 1814214E+03 5000000E+02 7071068E+02 1414214E+01 8164986E+00 5091169E+02 1728000E+04
2886751E+00 1118234E+03 2500000E+04 7071068E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02
4082843E+00 8598155E+05 3600000E+02 4887522E+04 5091169E+04 8640000E+05 2545584E+06 1319831E+06
2545584E+04 1272792E+06 2332800E+07 4405000E+00
CASE NUMBER 424
3952847E+01 1878424E+03 5000000E+02 7805694E+02 1581138E+01 1141089E+01 5692100E+02 1728000E+04
2886751E+00 1423025E+03 2500000E+04 8822182E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02
4564355E+00 7376961E+05 3600000E+02 6830520E+04 7115125E+04 8640000E+05 3557562E+06 1844240E+06
2846050E+04 1423025E+06 2332800E+07 4796000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 425
4192374E+01 2096187E+03 5000000E+02 8082258E+02 1612452E+01 1210234E+01 5804826E+02 1728000E+04
2886751E+00 1509255E+03 2500000E+04 1048094E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02
4654747E+00 7523054E+05 3600000E+02 7244422E+04 7548273E+04 8640000E+05 3773137E+06 1955994E+06
2902413E+04 1451206E+06 2332800E+07 4892000E+00
CASE NUMBER 426
4028553E+01 2218276E+03 5000000E+02 8215838E+02 1643168E+01 1280722E+01 5915404E+02 1728000E+04
2886751E+00 1587158E+03 2500000E+04 1108138E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02
4749418E+00 7868963E+05 3600000E+02 7668383E+04 7869795E+04 8640000E+05 3982897E+06 2068918E+06
2657702E+04 1478851E+06 2332800E+07 4992000E+00
CASE NUMBER 427
4695294E+01 2342648E+03 5000000E+02 8366600E+02 1673320E+01 1352528E+01 6023952E+02 1728000E+04
2886751E+00 1686707E+02 2500000E+04 1171324E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02
4830459E+00 7807042E+05 3600000E+02 8096192E+04 8432533E+04 8640000E+05 4216787E+06 2185672E+06
3011976E+04 1505988E+06 2332800E+07 5081000E+00
CASE NUMBER 428
4938522E+01 2489261E+03 5000000E+02 8514693E+02 1702939E+01 1425829E+01 6130579E+02 1728000E+04
2886751E+00 1777848E+02 2500000E+04 1254631E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02
4918940E+00 7945231E+05 3600000E+02 8533756E+04 8889340E+04 8640000E+05 4444670E+06 2304117E+06
3095290E+04 1522845E+06 2332800E+07 5176000E+00
CASE NUMBER 429
0 0 5000000E+020 0 0 0 3048625E+04
2626128E+000 2500000E+040 4665600E+05 9454063E+01 7621562E+07 1210844E+02
0 0 3600000E+020 0 0 0
0 0 2332800E+07 3393000E+00
CASE NUMBER 430
3535534E+00 1767767E+02 5000000E+02 3535534E+02 7071068E+00 1020621E+00 2545584E+02 1728000E+04
2826120E+00 1272792E+02 2500000E+04 8828835E+03 4665600E+05 1038403E+01 7621562E+07 1313064E+02
1854953E+00 3298077E+05 3600000E+02 1077852E+04 6363961E+03 1524313E+06 3181981E+05 1649538E+05
1272792E+04 163981E+05 2332800E+07 3603000E+00
CASE NUMBER 431
1000000E+01 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2626128E+00 3600000E+02 3048625E+04
2826120E+00 3600000E+02 2500000E+04 2500000E+04 4665600E+05 9454063E+01 7621562E+07 1313064E+02
2826120E+00 4665600E+05 3600000E+02 3048625E+04 1800000E+04 1524313E+06 8000000E+05 4665600E+05
1800000E+04 9000000E+05 2332800E+07 3997000E+00
CASE NUMBER 432
1837117E+01 9185587E+02 5000000E+02 6123724E+02 1224745E+01 5303301E+00 4409082E+02 1728000E+04
2886751E+00 6613622E+02 2500000E+04 4582793E+04 4665600E+05 9454063E+01 7621562E+07 1313064E+02
3716338E+00 5714170E+05 3600000E+02 5800822E+04 2306811E+04 1524313E+06 1653406E+06 8571255E+05
2204541E+04 1102270E+06 2332800E+07 4302000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 433
.2626427E+01 .1414214E+03 .5000000E+02 .7071068E+02 .1414214E+01 .7427814E+00 .5091169E+02 .3048625E+04
.2626129E+00 .1018234E+03 .2500000E+04 .7071068E+04 .4665600E+05 .9454063E+01 .7621562E+07 .1313064E+02
.3713907E+00 .6588155E+05 .3600000E+02 .8622814E+04 .5091169E+04 .1524313E+06 .2545584E+06 .1319631E+06
.2545584E+04 .1272792E+06 .2328000E+07 .4671000E+00
CASE NUMBER 434
.3042189E+01 .1521595E+03 .5000000E+02 .7245688E+02 .1448138E+01 .7991806E+00 .5216895E+02 .3048625E+04
.2626129E+00 .1085548E+03 .2500000E+04 .7607872E+04 .4665600E+05 .9454063E+01 .7621562E+07 .1313064E+02
.3805622E+00 .6781097E+05 .3600000E+02 .8277542E+04 .5477740E+04 .1524313E+06 .2728670E+06 .1419830E+06
.2608446E+04 .1304224E+06 .2328000E+07 .4761000E+00
CASE NUMBER 435
.3262127E+01 .1631564E+03 .5000000E+02 .7416188E+02 .1483240E+01 .8569292E+00 .5229663E+02 .3048625E+04
.2626129E+00 .1174726E+03 .2500000E+04 .8157818E+04 .4665600E+05 .9454063E+01 .7621562E+07 .1313064E+02
.3895178E+00 .6920203E+05 .3600000E+02 .9948052E+04 .5873629E+04 .1524313E+06 .2938615E+06 .1522445E+06
.2689831E+04 .1334816E+06 .2328000E+07 .4856000E+00
CASE NUMBER 436
0 0 0 0 0 0 0 .3430000E+03
.3779645E+00 0 0 0 4665600E+05 .1360672E+020 0 0
0 0 .3600000E+020 0 0 0
0 0 0 2747000E+00
CASE NUMBER 437
.353534E+00 0 0 0 .7071068E+00 .1338306E+00 .2545584E+02 .3430000E+03
.3779645E+00 .1272792E+020 0 4665600E+05 .1360672E+020 0
.2672612E+00 .3289077E+05 .3600000E+02 .1212888E+030 .2919000E+00 0 0
0 0 0 0
CASE NUMBER 438
.1000000E+010 0 0 0 .1000000E+01 .3779645E+00 .3600000E+02 .3430000E+03
.3779645E+00 .3600000E+020 0 4665600E+05 .1360672E+020 0
.3779645E+00 .4665600E+05 .3600000E+02 .3430000E+020 .3168000E+00 0 0
0 0 0 0
CASE NUMBER 439
.1837117E+010 0 0 0 .1224745E+01 .6943651E+00 .4409082E+02 .3430000E+03
.3779645E+00 .6813822E+020 0 4665600E+05 .1360672E+020 0
.4829100E+00 .5714170E+05 .3600000E+02 .6301312E+030 .3400000E+00 0 0
0 0 0 0
CASE NUMBER 440
.2328427E+010 0 0 0 .1414214E+01 .1068045E+01 .5091169E+02 .3430000E+03
.3779645E+00 .1018224E+020 0 4665600E+05 .1360672E+020 0
.5345225E+00 .6588155E+05 .3600000E+02 .9701505E+020 .3822000E+00 0 0
0 0 0 0

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 441
.3518014E+010 0 0 0 .1576615E+01 .1481248E+01 .5675813E+02 .3430000E+03
.3779645E+00 .1410845E+030 0 4665600E+05 .1360672E+020 0
.5858044E+00 .7355854E+05 .3600000E+02 .1344222E+040 .3879000E+00 0 0
0 0 0 0
CASE NUMBER 442
.5196152E+010 0 0 0 .1732051E+01 .1983961E+01 .6235383E+02 .3430000E+03
.3779645E+00 .1870615E+030 0 4665600E+05 .1360672E+020 0
.6546537E+00 .8081056E+05 .3600000E+02 .1782280E+040 .4187000E+00 0 0
0 0 0 0
CASE NUMBER 443
.8547400E+010 0 0 0 .1870829E+01 .2474874E+01 .6734983E+02 .3430000E+03
.3779645E+00 .2357244E+030 0 4665600E+05 .1360672E+020 0
.7071068E+00 .8728528E+05 .3600000E+02 .2245930E+040 .4523000E+00 0 0
0 0 0 0
CASE NUMBER 444
.8820520E+010 0 0 0 .1897367E+01 .2581694E+01 .6830520E+02 .3430000E+03
.3779645E+00 .2458887E+030 0 4665600E+05 .1360672E+020 0
.7171272E+00 .8852354E+05 .3600000E+02 .2342888E+040 .4580000E+00 0 0
0 0 0 0
CASE NUMBER 445
.7117092E+010 0 0 0 .1923538E+01 .2690008E+01 .6924738E+02 .3430000E+03
.3779645E+00 .2562153E+030 0 4665600E+05 .1360672E+020 0
.7270292E+00 .8974461E+05 .3600000E+02 .2441163E+040 .4641000E+00 0 0
0 0 0 0
CASE NUMBER 446
.7407584E+010 0 0 0 .1948259E+01 .2799796E+01 .7017682E+02 .3430000E+03
.3779645E+00 .2688723E+030 0 4665600E+05 .1360672E+020 0
.7367884E+00 .9094926E+05 .3600000E+02 .2540794E+040 .4704000E+00 0 0
0 0 0 0
CASE NUMBER 447
.7701882E+010 0 0 0 .1974842E+01 .2911038E+01 .7109430E+02 .3430000E+03
.3779645E+00 .2772678E+030 0 4665600E+05 .1360672E+020 0
.7464200E+00 .9213822E+05 .3600000E+02 .2641746E+040 .4770000E+00 0 0
0 0 0 0
CASE NUMBER 448
.8000000E+010 0 0 0 .2000000E+01 .3023716E+01 .7200000E+02 .3430000E+03
.3779645E+00 .2880000E+030 0 4665600E+05 .1360672E+020 0
.7559289E+00 .9331200E+05 .3600000E+02 .2744000E+040 .4838000E+00 0 0
0 0 0 0

```

NADC-77036-30

FRIDAY, JUL 2, 1978

[illegible]

FRIDAY, JUL 2, 1976

```

UNREGENERATED
DATA INPUT
CASE NUMBER 457
.5724534E+010 0 0 .178854E+01 .190111E+01 .643874E+02 .729000E+03
.333133E+00 2060760E+030 0 .466560E+05 .200000E+020 0 .
596244E+00 8346079E+05 .360000E+02 .4173040E+040 0 .267074E+06
0 0 0 .4601000E+00
CASE NUMBER 458
.5984748E+010 0 0 .1816590E+01 .1988249E+01 .6539725E+02 .729000E+03
.323133E+00 .2158106E+030 0 .466560E+05 .200000E+020 0 .
505530E+00 8475483E+05 .360000E+02 .4370171E+040 0 .279809E+06
0 0 0 .4685000E+00
CASE NUMBER 459
.6289290E+010 0 0 .184290E+01 .2089763E+01 .6638072E+02 .729000E+03
.323233E+00 .2255944E+030 0 .466560E+05 .200000E+020 0 .
.6146383E+00 8602941E+05 .360000E+02 .4570313E+040 0 .292500E+06
0 0 0 .4770000E+00
CASE NUMBER 460
.6549901E+010 0 0 .1878028E+01 .218287E+01 .6734983E+02 .729000E+03
.323233E+00 .2357244E+030 0 .466560E+05 .200000E+020 0 .
.6238086E+00 8728538E+05 .360000E+02 .4773418E+040 0 .3054988E+06
0 0 0 .4855000E+00
CASE NUMBER 461
.6849901E+010 0 0 .1878028E+01 .218287E+01 .6734983E+02 .729000E+03
.323233E+00 .2357244E+030 0 .466560E+05 .200000E+020 0 .
.6238086E+00 8728538E+05 .360000E+02 .4773418E+040 0 .3054988E+06
0 0 0 .4855000E+00
CASE NUMBER 462
.755553E+000 0 0 .7071088E+00 .111807E+00 .2545584E+02 .1000000E+04
.3162278E+00 .1272793E+020 0 .466560E+05 .1138420E+020 0 .
.2238086E+00 .3298077E+05 .360000E+02 .3535534E+030 0 .1649539E+05
0 0 0 .3178000E+00
CASE NUMBER 463
.1000000E+010 0 0 .1000000E+01 .3162278E+00 .360000E+02 .1000000E+04
.3162278E+00 .360000E+020 0 .466560E+05 .1138420E+020 0 .
.3162278E+00 .466560E+05 .360000E+02 .1000000E+040 0 .466560E+05
0 0 0 .3399000E+00
CASE NUMBER 464
.1816590E+010 0 0 .1224745E+00 .580795E+00 .4409082E+02 .1000000E+04
.3162278E+00 .5613623E+020 0 .466560E+05 .1138420E+020 0 .
.3872983E+00 .571470E+05 .360000E+02 .1037117E+040 0 .8571235E+05
0 0 0 .3645000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 465
.2828427E+010. 0. 0. 1414214E+01 .8944272E+00 5091169E+02 1000000E+04
.3162278E+00 .1018234E+030. 0. 4665600E+05 .1138420E+020. 0.
.4472136E+00 .6598155E+05 3600000E+02 .2828427E+040. 0. 0. 1319621E+06
0. 0. 0. 3823000E+00
CASE NUMBER 466
.3952847E+010. 0. 0. 1581138E+01 .1250000E+01 5692100E+02 1000000E+04
.3162278E+00 .1423025E+030. 0. 4665600E+05 .1138420E+020. 0.
.5000000E+00 .7376961E+05 3600000E+02 .3952847E+040. 0. 0. 1844240E+06
0. 0. 0. 4233000E+00
CASE NUMBER 467
.5196152E+010. 0. 0. 1732051E+01 .1643168E+01 6235383E+02 1000000E+04
.3162278E+00 .1270415E+030. 0. 4665600E+05 .1138420E+020. 0.
.5477226E+00 .8081056E+05 3600000E+02 .5196152E+040. 0. 0. 2424317E+06
0. 0. 0. 4587000E+00
CASE NUMBER 468
.5458113E+010. 0. 0. 1760682E+01 .1726007E+01 6338454E+02 1000000E+04
.3162278E+00 .1664821E+030. 0. 4665600E+05 .1138420E+020. 0.
.5567764E+00 .8214636E+05 3600000E+02 .5458113E+040. 0. 0. 2546537E+06
0. 0. 0. 4668000E+00
CASE NUMBER 469
.5724334E+010. 0. 0. 1788854E+01 .1810192E+01 6439876E+02 1000000E+04
.3162278E+00 .2060760E+030. 0. 4665600E+05 .1138420E+020. 0.
.5658554E+00 .8346079E+05 3600000E+02 .5724334E+040. 0. 0. 2670745E+06
0. 0. 0. 4754000E+00
CASE NUMBER 470
.5724334E+010. 0. 0. 0. 0. 0. 0.
.2886751E+000. 0. 0. 0. 4665600E+05 .1039230E+020. 0.
0. 0. 3600000E+020. 0. 0.
0. 0. 3028000E+00
CASE NUMBER 471
.5535534E+000. 0. 0. 0. 0. 0. 0.
.2886751E+00 .1272792E+020. 0. 4665600E+05 .1039230E+020. 0.
.2041241E+00 .3299077E+05 3600000E+02 .6109403E+030. 0. 0. 1649539E+05
0. 0. 0. 3287000E+00
CASE NUMBER 472
1000000E+010. 0. 0. 1000000E+01 .2886751E+00 3600000E+02 1728000E+04
.2886751E+00 3600000E+020. 0. 4665600E+05 .1039230E+020. 0.
.2886751E+00 .4665600E+05 3600000E+02 .1728000E+040. 0. 0. 4665600E+05
0. 0. 0. 3546000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 473
.1837117E+010. 0. 0. 1224745E+01 .530501E+00 4409082E+02 1728000E+04
.2886751E+00 .6613622E+020. 0. 4665600E+05 .1039230E+020. 0.
.3535534E+00 .5714170E+05 3600000E+02 .3174539E+040. 0. 0. 8571255E+05
0. 0. 0. 3817000E+00
CASE NUMBER 474
.2828427E+010. 0. 0. 1414214E+01 .8164966E+00 5091169E+02 1728000E+04
.2886751E+00 .1018234E+030. 0. 4665600E+05 .1039230E+020. 0.
.4082483E+00 .6598155E+05 3600000E+02 .4887522E+040. 0. 0. 1319621E+06
0. 0. 0. 4125000E+00
CASE NUMBER 475
.3952847E+010. 0. 0. 1581138E+01 .1141089E+01 5692100E+02 1728000E+04
.2886751E+00 .1423025E+030. 0. 4665600E+05 .1039230E+020. 0.
.4564255E+00 .7376961E+05 3600000E+02 .6830520E+040. 0. 0. 1844240E+06
0. 0. 0. 4458000E+00
CASE NUMBER 476
.4192374E+010. 0. 0. 1612452E+01 .1210234E+01 5804826E+02 1728000E+04
.2886751E+00 .1509255E+030. 0. 4665600E+05 .1039230E+020. 0.
.4654747E+00 .7523054E+05 3600000E+02 .7244422E+040. 0. 0. 1955994E+06
0. 0. 0. 4532000E+00
CASE NUMBER 477
1000000E+010. 0. 0. 0. 0. 0. 0.
.2828427E+000. 0. 0. 0. 4665600E+05 .9454063E+010. 0.
0. 0. 3600000E+020. 0. 0.
0. 0. 3163000E+00
CASE NUMBER 478
.3535534E+000. 0. 0. 0. 0. 0. 0.
.2626129E+00 .1272792E+020. 0. 4665600E+05 .9454063E+010. 0.
.1859532E+00 .3299077E+05 3600000E+02 .1077852E+040. 0. 0. 1649539E+05
0. 0. 0. 3437000E+00
CASE NUMBER 479
1000000E+010. 0. 0. 1000000E+01 .2626129E+00 3600000E+02 3048625E+04
.2626129E+00 3600000E+020. 0. 4665600E+05 .9454063E+010. 0.
.2626129E+00 .4665600E+05 3600000E+02 .3048625E+040. 0. 0. 4665600E+05
0. 0. 0. 3730000E+00
CASE NUMBER 480
.1837117E+010. 0. 0. 1224745E+01 .4824508E+00 4409082E+02 3048625E+04
.2626129E+00 .6613622E+020. 0. 4665600E+05 .9454063E+010. 0.
.3216338E+00 .5714170E+05 3600000E+02 .5600682E+040. 0. 0. 8571255E+05
0. 0. 0. 4032000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 481
.2023858E+010 0. 0. 0. 1264911E+01 5314811E+00 4553680E+02 3048625E+04
.2626129E+00 7285888E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3221819E+00 5901589E+05 3600000E+02 8189883E+040 0. 0. 0. 9442510E+05
0. 0. 0. 4081000E+00
CASE NUMBER 482
.2216528E+010 0. 0. 0. 1303840E+01 5820890E+00 4693826E+02 3048625E+04
.2626129E+00 7979504E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3424053E+00 8083198E+05 3600000E+02 8757365E+040 0. 0. 0. 1034144E+06
0. 0. 0. 8152000E+00
CASE NUMBER 483
.2414953E+010 0. 0. 0. 1341641E+01 6341978E+00 4828907E+02 3048625E+04
.2626129E+00 8693832E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3523221E+00 8259559E+05 3600000E+02 7362287E+040 0. 0. 0. 1126721E+06
0. 0. 0. 4216000E+00
CASE NUMBER 484
.2818959E+010 0. 0. 0. 1378405E+01 6877750E+00 4962258E+02 3048625E+04
.2626129E+00 9428208E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3819989E+00 8431096E+05 3600000E+02 7984555E+040 0. 0. 0. 1221906E+06
0. 0. 0. 4291000E+00
CASE NUMBER 485
.2828427E+010 0. 0. 0. 1414214E+01 7427814E+00 5091169E+02 3048625E+04
.2626129E+00 1018234E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3713907E+00 8588155E+05 3600000E+02 8622814E+040 0. 0. 0. 1319631E+06
0. 0. 0. 4351000E+00
CASE NUMBER 486
.3779645E+000 0. 1000000E+030 0. 0. 0. 0. 0. 3430000E+03
0. 0. 1000000E+050 0. 4665600E+05 1360672E+02 3430000E+07 3779645E+02
0. 0. 3600000E+020 0. 0. 0. 3430000E+050 0.
0. 0. 4665600E+07 2542000E+00
CASE NUMBER 487
.3525534E+00 3535534E+02 1000000E+03 7071068E+02 7071068E+00 1336306E+00 2545584E+02 3430000E+03
.3779645E+00 1272782E+02 1000000E+05 3535534E+04 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.2672612E+00 3299077E+05 3600000E+02 1212888E+03 1272782E+04 3430000E+05 1272782E+06 1649539E+05
.2545584E+04 2545584E+06 4665600E+07 2690000E+00
CASE NUMBER 488
.1000000E+01 1000000E+03 1000000E+03 1000000E+03 1000000E+01 3779645E+00 3600000E+02 3430000E+03
.3779645E+00 3600000E+05 1000000E+05 1000000E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.3779645E+00 4665600E+05 3600000E+02 3430000E+03 3600000E+04 3430000E+05 3600000E+06 4665600E+05
.3600000E+04 3600000E+06 4665600E+07 2648000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 489
.1837117E+01 1837117E+03 1000000E+03 1224745E+02 1224745E+01 8943651E+00 4409802E+02 3430000E+03
.3779645E+00 1837117E+05 1000000E+05 1837117E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.4628100E+00 5714170E+05 3600000E+02 6301512E+03 6301512E+04 3430000E+05 6301512E+06 8571255E+05
.4409802E+04 4409802E+06 4665600E+07 3036000E+00
CASE NUMBER 490
.2828427E+01 2828427E+03 1000000E+03 1414214E+03 1414214E+01 1069045E+01 5091169E+02 3430000E+03
.3779645E+00 1018234E+03 1000000E+05 2828427E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.5245225E+00 6598155E+05 3600000E+02 9701505E+03 1018234E+05 3430000E+05 1018234E+07 1319631E+06
.5091169E+04 5091169E+06 4665600E+07 3241000E+00
CASE NUMBER 491
.3552847E+01 3552847E+03 1000000E+03 1581138E+03 1581138E+01 1494036E+01 5892100E+02 3430000E+03
.3779645E+00 1423025E+03 1000000E+05 3552847E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.5876143E+00 7378861E+05 3600000E+02 1355827E+04 1423025E+05 3430000E+05 1423025E+07 1844240E+06
.5892100E+04 5892100E+06 4665600E+07 3484000E+00
CASE NUMBER 492
.5196152E+01 5196152E+03 1000000E+03 1732051E+03 1732051E+01 1962861E+01 6235383E+02 3430000E+03
.3779645E+00 1870615E+03 1000000E+05 5196152E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.8546337E+00 8081056E+05 3600000E+02 1782280E+04 1870615E+05 3430000E+05 1870615E+07 2424317E+06
.8235383E+04 8235383E+06 4665600E+07 3727000E+00
CASE NUMBER 493
.8547800E+01 8547800E+03 1000000E+03 1870829E+03 1870829E+01 2474874E+01 6734983E+02 3430000E+03
.3779645E+00 2257244E+03 1000000E+05 8547800E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7071068E+00 6728388E+05 3600000E+02 2245970E+04 2257244E+05 3430000E+05 2257244E+07 3054988E+06
.6734983E+04 6734983E+06 4665600E+07 4048000E+00
CASE NUMBER 494
.6830520E+01 6830520E+03 1000000E+03 1897367E+03 1897367E+01 2581694E+01 6830520E+02 3430000E+03
.3779645E+00 2458977E+03 1000000E+05 6830520E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7171722E+00 8852354E+05 3600000E+02 2342868E+04 2458977E+05 3430000E+05 2458977E+07 3168847E+06
.6830520E+04 6830520E+06 4665600E+07 4104000E+00
CASE NUMBER 495
.7117082E+01 7117082E+03 1000000E+03 1923538E+03 1923538E+01 2690000E+01 6824738E+02 3430000E+03
.3779645E+00 2562153E+03 1000000E+05 7117082E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7270262E+00 8974461E+05 3600000E+02 2441183E+04 2562153E+05 3430000E+05 2562153E+07 3320550E+06
.6824738E+04 6824738E+06 4665600E+07 4168000E+00
CASE NUMBER 496
.7407564E+01 7407564E+03 1000000E+03 1949359E+03 1949359E+01 2799796E+01 7017892E+02 3430000E+03
.3779645E+00 2666723E+03 1000000E+05 7407564E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7387884E+00 8084929E+05 3600000E+02 2540794E+04 2666723E+05 3430000E+05 2666723E+07 3456073E+06
.7017892E+04 7017892E+06 4665600E+07 4232000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 497
0 1000000E-030 0 0 0 7290000E-03
333333E+00 0 1000000E-030 0 0 7290000E-07 333333E+02
0 0 1000000E-020 0 0 7290000E-050 0
0 0 4665600E-07 2623000E-00 0 0 0
CASE NUMBER 498
333333E+00 333333E-02 1000000E-03 7071068E-02 7071068E-00 1178511E-00 2545584E-02 7290000E-03
333333E+00 1272792E-02 1000000E-05 353534E-04 4665600E-05 1200000E-02 7290000E-07 333333E+02
257623E-00 3299077E-05 3600000E-02 2577404E-03 1272792E-04 7290000E-05 1272792E-06 1649539E-05
2545584E-04 2545584E-06 4665600E-07 2795000E-00 0 0 0 0
CASE NUMBER 499
1000000E-01 1000000E-03 1000000E-03 1000000E-03 1000000E-01 333333E-00 3600000E-02 7290000E-03
333333E+00 3600000E-02 1000000E-05 1000000E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
333333E+00 4665600E-05 3600000E-02 7290000E-03 3600000E-04 7290000E-05 3600000E-06 4665600E-05
3600000E-04 3600000E-06 4665600E-07 2883000E-00 0 0 0 0
CASE NUMBER 500
1837117E-01 1837117E-03 1000000E-03 1224745E-03 1224745E-01 6123724E-00 4409082E-02 7290000E-03
333333E+00 6613622E-02 1000000E-05 1837117E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
4082403E-00 5714170E-05 3600000E-02 1338259E-04 6613622E-04 7290000E-05 6613622E-06 6571255E-05
4409082E-04 4409082E-06 4665600E-07 3197000E-00 0 0 0 0
CASE NUMBER 501
2828427E-01 2828427E-03 1000000E-03 1414214E-03 1414214E-01 8426050E-00 5091169E-02 7290000E-03
333333E+00 1018234E-03 1000000E-05 2828427E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
4714045E-00 658155E-05 3600000E-02 2091923E-04 1018234E-05 7290000E-05 1018234E-07 1319831E-06
5091169E-04 5091169E-06 4665600E-07 3423000E-00 0 0 0 0
CASE NUMBER 502
3952847E-01 3952847E-03 1000000E-03 1581139E-03 1581139E-01 1317616E-01 5692100E-02 7290000E-03
333333E+00 1423025E-03 1000000E-05 3952847E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5270463E-00 7376961E-05 3600000E-02 2881626E-04 1423025E-05 7290000E-05 1423025E-07 1844240E-06
5692100E-04 5692100E-06 4665600E-07 3687000E-00 0 0 0 0
CASE NUMBER 503
5196152E-01 5196152E-03 1000000E-03 1732051E-03 1732051E-01 1732051E-01 6225382E-02 7290000E-03
333333E+00 1870615E-03 1000000E-05 5196152E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5773503E-00 8081056E-05 3600000E-02 3787955E-04 1870615E-05 7290000E-05 1870615E-07 2426317E-06
6235382E-04 6235382E-06 4665600E-07 4006000E-00 0 0 0 0
CASE NUMBER 504
5458113E-01 5458113E-03 1000000E-03 1760682E-03 1760682E-01 1819371E-01 6338454E-02 7290000E-03
333333E+00 1964921E-03 1000000E-05 5458113E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5889939E-00 8214636E-05 3600000E-02 3978965E-04 1964921E-05 7290000E-05 1964921E-07 2546537E-06
6338454E-04 6338454E-06 4665600E-07 4078000E-00 0 0 0 0

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 505
5724334E-01 5724334E-03 1000000E-03 1788854E-03 1788854E-01 1908111E-01 6439876E-02 7290000E-03
333333E+00 2060760E-03 1000000E-05 5724334E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5862848E-00 8346075E-05 3600000E-02 4173040E-04 2060760E-05 7290000E-05 2060760E-07 2670745E-06
6439876E-04 6439876E-06 4665600E-07 4152000E-00 0 0 0 0
CASE NUMBER 506
0 1000000E-030 0 0 0 1000000E-04
3162278E-000 0 1000000E-030 0 0 1138420E-02 1000000E-08 3162278E-02
0 0 1000000E-020 0 0 1000000E-060 0
0 0 4665600E-07 2667000E-00 0 0 0
CASE NUMBER 507
333333E+00 333333E-02 1000000E-03 7071068E-02 7071068E-00 1118034E-00 2545584E-02 1000000E-04
3162278E-00 1272792E-02 1000000E-05 353534E-04 4665600E-05 1138420E-02 1000000E-08 3162278E-02
2236068E-00 3299077E-05 3600000E-02 353534E-03 1272792E-04 1000000E-06 1272792E-06 1649539E-05
2545584E-04 2545584E-06 4665600E-07 2846000E-00 0 0 0 0
CASE NUMBER 508
1000000E-01 1000000E-03 1000000E-03 1000000E-03 1000000E-01 3162278E-00 3600000E-02 1000000E-04
3162278E-00 3600000E-02 1000000E-05 1000000E-05 4665600E-05 1138420E-02 1000000E-08 3162278E-02
3162278E-00 4665600E-05 3600000E-02 1000000E-04 3600000E-04 1000000E-06 3600000E-06 4665600E-05
3600000E-04 3600000E-06 4665600E-07 3053000E-00 0 0 0 0
CASE NUMBER 509
1837117E-01 1837117E-03 1000000E-03 1224745E-03 1224745E-01 5609475E-00 4409082E-02 1000000E-04
3162278E-00 6613622E-02 1000000E-05 1837117E-05 4665600E-05 1138420E-02 1000000E-08 3162278E-02
3872983E-00 5714170E-05 3600000E-02 1837117E-04 6613622E-04 1000000E-06 6613622E-06 8571255E-05
4409082E-04 4409082E-06 4665600E-07 3274000E-00 0 0 0 0
CASE NUMBER 510
2828427E-01 2828427E-03 1000000E-03 1414214E-03 1414214E-01 8944272E-00 5091169E-02 1000000E-04
3162278E-00 1018234E-03 1000000E-05 2828427E-05 4665600E-05 1138420E-02 1000000E-08 3162278E-02
4472136E-00 658155E-05 3600000E-02 2828427E-04 1018234E-05 1000000E-06 1018234E-07 1319831E-06
5091169E-04 5091169E-06 4665600E-07 3515000E-00 0 0 0 0
CASE NUMBER 511
3952847E-01 3952847E-03 1000000E-03 1581139E-03 1581139E-01 1250000E-01 5692100E-02 1000000E-04
3162278E-00 1423025E-03 1000000E-05 3952847E-05 4665600E-05 1138420E-02 1000000E-08 3162278E-02
5800000E-00 7376961E-05 3600000E-02 3952847E-04 1423025E-05 1000000E-06 1423025E-07 1844240E-06
5692100E-04 5692100E-06 4665600E-07 3807000E-00 0 0 0 0
CASE NUMBER 512
4192374E-01 4192374E-03 1000000E-03 1612452E-03 1612452E-01 1325745E-01 5804826E-02 1000000E-04
3162278E-00 1509255E-03 1000000E-05 4192374E-05 4665600E-05 1138420E-02 1000000E-08 3162278E-02
5899020E-00 7523054E-05 3600000E-02 4192374E-04 1509255E-05 1000000E-06 1509255E-07 1855864E-06
5804826E-04 5804826E-06 4665600E-07 3885000E-00 0 0 0 0

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	513	GROUP NUMBER	2
4438553E-01	4438553E-03	1000000E-03	1643168E-03
3182278E-00	1597159E-02	1000000E-05	4438553E-05
5186152E-00	7666363E-08	3600000E-02	4438553E-04
5915404E-04	5915404E-06	4665600E-07	3931000E-00
4685298E-01	4685298E-03	1000000E-03	1673320E-03
3182278E-00	1686707E-03	1000000E-05	4685298E-05
5291503E-00	7807042E-05	3600000E-02	4685298E-04
6023952E-04	6023952E-06	4665600E-07	4000000E-00
CASE NUMBER	515	GROUP NUMBER	2
0.	0.	1000000E-030.	0.
2886751E-000.	0.	1000000E-050.	0.
0.	0.	3600000E-020.	0.
0.	0.	4665600E-07.	2754000E-00
CASE NUMBER	516	GROUP NUMBER	2
2535534E-00	2535534E-02	1000000E-03	7071068E-03
2886751E-00	1272782E-02	1000000E-05	3535534E-04
2041241E-00	3299077E-05	3600000E-02	6109403E-03
2545584E-04	2545584E-06	4665600E-07	2953000E-00
CASE NUMBER	517	GROUP NUMBER	2
1000000E-01	1000000E-03	1000000E-03	1000000E-03
2886751E-00	3600000E-02	1000000E-05	1000000E-05
2886751E-00	4665600E-05	3600000E-02	1728000E-04
3600000E-04	3600000E-06	4665600E-07	3191000E-00
CASE NUMBER	518	GROUP NUMBER	2
1837117E-01	1837117E-03	1000000E-03	1224745E-03
2886751E-00	6613622E-02	1000000E-05	1837117E-05
3535534E-00	5714170E-05	3600000E-02	3174529E-04
4409082E-04	4409082E-06	4665600E-07	3429000E-00
CASE NUMBER	519	GROUP NUMBER	2
2828427E-01	2828427E-03	1000000E-03	1414214E-03
2886751E-00	1018234E-03	1000000E-05	2828427E-05
4082483E-00	6599155E-05	3600000E-02	4887522E-04
5091189E-04	5091189E-06	4665600E-07	3704000E-00
CASE NUMBER	520	GROUP NUMBER	2
3043189E-01	3043189E-03	1000000E-03	1449138E-03
2886751E-00	1095548E-03	1000000E-05	3043189E-05
4183300E-00	6761097E-05	3600000E-02	5258631E-04
5216899E-04	5216899E-06	4665600E-07	3764000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	521	GROUP NUMBER	2
3263127E-01	3263127E-03	1000000E-03	1483240E-03
2886751E-00	1174726E-03	1000000E-05	3263127E-05
4281744E-00	6920203E-05	3600000E-02	5638884E-04
5329663E-04	5329663E-06	4665600E-07	3826000E-00
CASE NUMBER	522	GROUP NUMBER	2
3488123E-01	3488123E-03	1000000E-03	1516575E-03
2886751E-00	1255724E-03	1000000E-05	3488123E-05
4277975E-00	7075733E-05	3600000E-02	6027476E-04
5459670E-04	5459670E-06	4665600E-07	3891000E-00
CASE NUMBER	523	GROUP NUMBER	2
0.	0.	1000000E-030.	0.
2626129E-000.	0.	1000000E-050.	0.
0.	0.	3600000E-020.	0.
0.	0.	4665600E-07.	2868000E-00
CASE NUMBER	524	GROUP NUMBER	2
3535534E-00	3535534E-02	1000000E-03	7071068E-03
2626129E-00	1272782E-02	1000000E-05	3535534E-04
1856953E-00	3299077E-05	3600000E-02	1077952E-04
2545584E-04	2545584E-06	4665600E-07	2096000E-00
CASE NUMBER	525	GROUP NUMBER	2
1000000E-01	1000000E-03	1000000E-03	1000000E-03
2626129E-00	3600000E-02	1000000E-05	1000000E-05
2626129E-00	4665600E-05	3600000E-02	3048625E-04
3600000E-04	3600000E-06	4665600E-07	3356000E-00
CASE NUMBER	526	GROUP NUMBER	2
1837117E-01	1837117E-03	1000000E-03	1224745E-03
2626129E-00	6613622E-02	1000000E-05	1837117E-05
3218238E-00	5714170E-05	3600000E-02	5800882E-04
4409082E-04	4409082E-06	4665600E-07	3829000E-00
CASE NUMBER	527	GROUP NUMBER	2
2023858E-01	2023858E-03	1000000E-03	1264811E-03
2626129E-00	7285888E-02	1000000E-05	2023858E-05
3321819E-00	5901589E-05	3600000E-02	6169982E-04
4552880E-04	4552880E-06	4665600E-07	3888000E-00
CASE NUMBER	528	GROUP NUMBER	2
0.	0.	2000000E-030.	0.
2779845E-000.	0.	4000000E-050.	0.
0.	0.	3600000E-020.	0.
0.	0.	4665600E-07.	2383000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	529	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3779645E-00	1272792E-02	4000000E-05	1414214E-05
2672612E-00	3299077E-05	3600000E-02	1212688E-03
5091169E-04	1018234E-07	9331200E-07	2471000E-00
CASE NUMBER	530	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
3779645E-00	3600000E-02	4000000E-05	4665600E-05
3779645E-00	4665600E-05	3600000E-02	3430000E-03
7200000E-04	1440000E-07	9331200E-07	2622000E-00
CASE NUMBER	531	GROUP NUMBER	2
1837117E-01	3674235E-03	2000000E-03	2449490E-03
3779645E-00	6613622E-02	4000000E-05	7348468E-05
4629100E-00	5714170E-05	3600000E-02	8301312E-03
8818163E-04	1763633E-07	9331200E-07	2786000E-00
CASE NUMBER	532	GROUP NUMBER	2
2828427E-01	5656854E-03	2000000E-03	2828427E-03
3779645E-00	1018234E-03	4000000E-05	1131371E-06
5345225E-00	6598155E-05	3600000E-02	9701503E-03
1018234E-05	2036468E-07	9331200E-07	2973000E-00
CASE NUMBER	533	GROUP NUMBER	2
3952847E-01	7905694E-03	2000000E-03	3162278E-03
3779645E-00	1423025E-03	4000000E-05	1581139E-06
5976142E-00	7378861E-05	3600000E-02	1355827E-04
1138420E-05	2276840E-07	9331200E-07	3187000E-00
CASE NUMBER	534	GROUP NUMBER	2
5196152E-01	1036230E-04	2000000E-03	3464102E-03
3779645E-00	1870815E-03	4000000E-05	2078461E-06
6546537E-00	8081058E-05	3600000E-02	1782280E-04
1247077E-05	2494153E-07	9331200E-07	2428000E-00
CASE NUMBER	535	GROUP NUMBER	2
6547900E-01	1309580E-04	2000000E-03	3741657E-03
3779645E-00	2337244E-03	4000000E-05	2619140E-06
7071068E-00	8728538E-05	3600000E-02	2245930E-04
1346897E-05	2683993E-07	9331200E-07	3733000E-00
CASE NUMBER	536	GROUP NUMBER	2
6830520E-01	1366104E-04	2000000E-03	3794733E-03
3779645E-00	2458877E-05	4000000E-05	2732208E-06
7171372E-00	8852354E-05	3600000E-02	2342868E-04
1266104E-05	2732208E-07	9331200E-07	2787000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	537	GROUP NUMBER	2
0	0	2000000E-030	0
3333333E-000	0	4000000E-050	0
0	0	3600000E-020	0
0	0	9331200E-07	2439000E-00
CASE NUMBER	538	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3333333E-00	1272792E-02	4000000E-05	1414214E-05
2357023E-00	3299077E-05	3600000E-02	2577404E-03
5091169E-04	1018234E-07	9331200E-07	2577404E-03
CASE NUMBER	539	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
3333333E-00	3600000E-02	4000000E-05	4665600E-05
3333333E-00	4665600E-05	3600000E-02	3430000E-03
7200000E-04	1440000E-07	9331200E-07	2743000E-00
CASE NUMBER	540	GROUP NUMBER	2
1837117E-01	3674235E-03	2000000E-03	2449490E-03
3333333E-00	6613622E-02	4000000E-05	7348468E-05
4092480E-00	5714170E-05	3600000E-02	8301312E-03
8818163E-04	1763633E-07	9331200E-07	2786000E-00
CASE NUMBER	541	GROUP NUMBER	2
2828427E-01	5656854E-03	2000000E-03	2828427E-03
3333333E-00	1018234E-03	4000000E-05	1131371E-06
4714045E-00	6598155E-05	3600000E-02	2061923E-04
1018234E-05	2036468E-07	9331200E-07	3185000E-00
CASE NUMBER	542	GROUP NUMBER	2
3952847E-01	7905694E-03	2000000E-03	3162278E-03
3333333E-00	1423025E-03	4000000E-05	1581139E-06
5976142E-00	7378861E-05	3600000E-02	1355827E-04
1138420E-05	2276840E-07	9331200E-07	3410000E-00
CASE NUMBER	543	GROUP NUMBER	2
4192374E-01	8384748E-03	2000000E-03	3224903E-03
3333333E-00	1509255E-03	4000000E-05	1678750E-06
5374833E-00	7523054E-05	3600000E-02	3056241E-04
1160865E-05	2221920E-07	9331200E-07	3464000E-00
CASE NUMBER	544	GROUP NUMBER	2
4436555E-01	8873105E-03	2000000E-03	3286335E-03
3333333E-00	1587158E-03	4000000E-05	1776421E-06
5677220E-00	7666363E-05	3600000E-02	3234947E-04
1183081E-05	2386181E-07	9331200E-07	3519000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 545
4685295E+01 9370592E+03 2000000E+03 3346640E+03 1673220E+01 1561765E+01 6023952E+02 7290000E+03
3333333E+00 1886707E+03 4000000E+05 1874118E+04 4665600E+05 1200000E+02 2816000E+08 6666667E+02
557774E+00 7807042E+05 3600000E+02 3415581E+04 3373413E+05 1458000E+06 6746826E+07 2185972E+06
1204790E+05 2409581E+07 9331200E+07 3577000E+00

CASE NUMBER 546
4938522E+01 9877044E+03 2000000E+03 3405877E+03 1702939E+01 1646174E+01 6130579E+02 7290000E+03
3333333E+00 1777888E+03 4000000E+05 1975409E+04 4665600E+05 1200000E+02 2816000E+08 6666667E+02
5678462E+00 7945231E+05 3600000E+02 3600183E+04 3555736E+05 1458000E+06 7111472E+07 2304117E+06
1266116E+05 2452322E+07 9331200E+07 3638000E+00

CASE NUMBER 547
0. 0. 2000000E+030. 0. 0. 0. 1000000E+04
3162278E+000. 4000000E+050. 4665600E+05 1138420E+02 4000000E+08 6324555E+02
0. 0. 3600000E+020. 0. 2000000E+060. 0.
0. 0. 9331200E+07 2479000E+00

CASE NUMBER 548
353534E+00 7071068E+02 2000000E+03 1414214E+03 7071068E+00 1118034E+00 2545584E+02 1000000E+04
3162278E+00 1272792E+02 4000000E+05 1414214E+05 4665600E+05 1138420E+02 4000000E+08 6324555E+02
2294080E+00 3299077E+05 3600000E+02 353534E+03 2545584E+04 2000000E+06 5091169E+06 1648539E+05
5091169E+04 1018234E+07 9331200E+07 2625000E+00

CASE NUMBER 549
1000000E+01 2000000E+03 2000000E+03 2000000E+03 1000000E+01 3162278E+00 3600000E+02 1000000E+04
3162278E+00 3600000E+02 4000000E+05 4000000E+05 4665600E+05 1138420E+02 4000000E+08 6324555E+02
3162278E+00 4665600E+05 3600000E+02 1000000E+04 7200000E+04 2000000E+06 1440000E+07 4665600E+05
7200000E+04 1440000E+07 9331200E+07 2809000E+00

CASE NUMBER 550
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5809475E+00 4408082E+02 1000000E+04
3162278E+00 4612822E+02 4000000E+05 7348499E+05 4665600E+05 1138420E+02 4000000E+08 6324555E+02
3872883E+00 5714170E+05 3600000E+02 1837117E+04 1322724E+05 3456000E+06 2645449E+07 8371255E+05
8818163E+04 1763633E+07 9331200E+07 3178000E+00

CASE NUMBER 551
2828427E+01 5656854E+03 2000000E+03 2828427E+03 1414214E+01 8944272E+00 5091169E+02 1000000E+04
3162278E+00 7018234E+03 4000000E+05 1131371E+06 4665600E+05 1138420E+02 4000000E+08 6324555E+02
4472136E+00 6588155E+05 3600000E+02 2828427E+04 2828427E+04 2000000E+06 4072935E+07 1319631E+06
1018234E+05 2024468E+07 9331200E+07 3254000E+00

CASE NUMBER 552
3952847E+01 7805894E+03 2000000E+03 3162278E+02 1581139E+01 1250000E+01 5692100E+02 1000000E+04
3162278E+00 1432325E+03 4000000E+05 1581139E+04 4665600E+05 1138420E+02 4000000E+08 6324555E+02
5000000E+00 7376961E+05 3600000E+02 3952847E+04 2844050E+05 2000000E+06 5692100E+07 1844240E+06
1128420E+05 2276840E+07 9331200E+07 3517000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 553
4192274E+01 8384748E+03 2000000E+03 3224903E+03 1612452E+01 1325745E+01 5804826E+02 1000000E+04
3162278E+00 1509255E+03 4000000E+05 1876930E+04 4665600E+05 1138420E+02 4000000E+08 6324555E+02
5090820E+00 7823235E+05 3600000E+02 4192274E+04 3018509E+05 2000000E+06 6037019E+07 1955994E+06
1160885E+05 2321930E+07 9331200E+07 3575000E+00

CASE NUMBER 554
0. 0. 2000000E+030. 0. 0. 0. 1728000E+04
2886751E+000. 4000000E+050. 4665600E+05 1039230E+02 6912000E+08 5773503E+02
0. 0. 3600000E+020. 0. 3456000E+060. 0.
0. 0. 9331200E+07 2544000E+00

CASE NUMBER 555
353534E+00 7071068E+02 2000000E+03 1414214E+03 7071068E+00 1020621E+00 2545584E+02 1728000E+04
2886751E+00 1272792E+02 4000000E+05 1414214E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
2061241E+00 3299077E+05 3600000E+02 6108403E+03 2545584E+04 3456000E+06 5091169E+06 1648539E+05
5091169E+04 1018234E+07 9331200E+07 2726000E+00

CASE NUMBER 556
1000000E+01 2000000E+03 2000000E+03 2000000E+03 1000000E+01 2886751E+00 3600000E+02 1728000E+04
2886751E+00 3600000E+02 4000000E+05 4000000E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
2886751E+00 4665600E+05 3600000E+02 1728000E+04 7200000E+04 3456000E+06 1440000E+07 4665600E+05
7200000E+04 1440000E+07 9331200E+07 2943000E+00

CASE NUMBER 557
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5303301E+00 4408082E+02 1728000E+04
2886751E+00 4612822E+02 4000000E+05 7348499E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
353534E+00 5714170E+05 3600000E+02 1837117E+04 1322724E+05 3456000E+06 2645449E+07 8371255E+05
8818163E+04 1763633E+07 9331200E+07 3178000E+00

CASE NUMBER 558
2032858E+01 4047713E+03 2000000E+03 2529822E+03 1264911E+01 5842374E+00 4532480E+02 1728000E+04
2886751E+00 7285280E+02 4000000E+05 8095431E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
3651484E+00 5801569E+05 3600000E+02 3487226E+04 1457178E+05 3456000E+06 2814355E+07 8442510E+05
9107300E+04 1821472E+07 9331200E+07 2227000E+00

CASE NUMBER 559
2118519E+01 4433058E+03 2000000E+03 2867681E+03 1303846E+01 4298568E+00 4693282E+02 1728000E+04
2886751E+00 7879500E+02 4000000E+05 3886113E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
3743833E+00 6083190E+05 3600000E+02 3336162E+04 1585901E+05 3456000E+06 3191801E+07 1034144E+06
8387451E+04 1877536E+07 9331200E+07 3278000E+00

CASE NUMBER 560
2414953E+01 4829907E+03 2000000E+03 2683262E+03 1341441E+01 8971370E+00 4829907E+02 1728000E+04
2886751E+00 8893832E+02 4000000E+05 8659814E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
3872932E+00 6259559E+05 3600000E+02 4173040E+04 1738786E+05 3456000E+06 3477532E+07 1128721E+06
6858614E+04 1821962E+07 9331200E+07 3328000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	561			GROUP NUMBER	2
261896E-01	5237920E-03	2000000E-03	2756810E-03	1378405E-01	7560213E-00
2886751E-00	9428280E-02	4000000E-05	1047588E-06	4665600E-05	1039230E-02
3979112E-00	6431086E-05	3600000E-02	4525578E-04	1895658E-05	3456000E-06
3924515E-04	1884903E-07	9331200E-07	3379000E-00		
CASE NUMBER	562			GROUP NUMBER	2
2828427E-01	5656854E-03	2000000E-03	2828427E-03	1414214E-01	8168866E-00
2886751E-00	1018224E-03	4000000E-05	1131371E-06	4665600E-05	1039230E-02
4082483E-00	3589155E-05	3600000E-02	4887522E-04	2034468E-05	3456000E-06
1018234E-05	2036468E-07	9331200E-07	3432000E-00		
CASE NUMBER	563			GROUP NUMBER	2
0	0	2000000E-030	0	0	0
2626129E-000	0	4000000E-050	0	4665600E-05	9454063E-01
0	0	3600000E-020	0	6097250E-060	0
0	0	9331200E-07	2875000E-00		
CASE NUMBER	564			GROUP NUMBER	2
2535532E-00	7071068E-02	2000000E-03	1414214E-03	7071068E-00	9284767E-01
2626129E-00	1272792E-02	4000000E-05	1414214E-05	4665600E-05	9454063E-01
1856053E-00	3289077E-05	3600000E-02	1077852E-04	2545584E-04	6097250E-06
5061169E-04	1018224E-07	9331200E-07	2875000E-00		
CASE NUMBER	565			GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	2000000E-03	1000000E-01	2626129E-00
2626129E-00	3600000E-02	4000000E-05	4000000E-05	4665600E-05	9454063E-01
2626129E-00	4883800E-05	3600000E-02	3648625E-04	7200000E-04	6097250E-06
7200000E-04	1440000E-07	9331200E-07	3115000E-00		
CASE NUMBER	566			GROUP NUMBER	2
1153490E-01	2307378E-03	2000000E-03	2087618E-03	1048800E-01	3026738E-00
2626129E-00	4153263E-02	4000000E-05	4614759E-05	4665600E-05	9454063E-01
2754307E-00	4883323E-05	3600000E-02	3517167E-04	8706846E-04	6097250E-06
7551424E-04	1510285E-07	9331200E-07	3162000E-00		
CASE NUMBER	567			GROUP NUMBER	2
1314534E-01	2628068E-03	2000000E-03	2190890E-03	1095445E-01	3452136E-00
2626129E-00	4732323E-02	4000000E-05	5258137E-05	4665600E-05	9454063E-01
2871800E-00	5110809E-05	3600000E-02	4607522E-04	9464548E-04	6097250E-06
7887205E-04	1577441E-07	9331200E-07	3211000E-00		
CASE NUMBER	568			GROUP NUMBER	2
1482222E-01	2984456E-03	2000000E-03	2280351E-03	1140175E-01	3882522E-00
2626129E-00	5236021E-02	4000000E-05	5829872E-05	4665600E-05	9454063E-01
2994247E-00	5219402E-05	3600000E-02	4518757E-04	1067204E-05	6097250E-06
8209262E-04	1641852E-07	9331200E-07	3260000E-00		

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	569			GROUP NUMBER	1
0	0	5000000E-020	0	0	0
3779645E-000	0	2500000E-040	0	5832000E-04	6803361E-01
0	0	1800000E-020	0	1715000E-050	0
0	0	2916000E-06	3156000E-00		
CASE NUMBER	570			GROUP NUMBER	1
3986559E-00	1993280E-02	5000000E-02	3679500E-02	7358801E-00	1506778E-00
3779645E-00	7175808E-01	2500000E-04	9986398E-03	5832000E-04	6803361E-01
2781743E-00	4282386E-04	1800000E-02	1387380E-03	3587903E-03	1715000E-05
8633821E-03	3311910E-05	2916000E-06	3465000E-00		
CASE NUMBER	571			GROUP NUMBER	1
1054047E-01	5270235E-02	5000000E-02	5088502E-02	1017700E-01	3983823E-00
3779645E-00	1897285E-02	2500000E-04	2635117E-04	5832000E-04	6803361E-01
3846549E-00	5935229E-04	1800000E-02	2615381E-03	9486423E-03	1715000E-05
8159304E-03	4578652E-05	2916000E-06	3750000E-00		
CASE NUMBER	572			GROUP NUMBER	1
1827117E-01	3185587E-02	5000000E-02	6123724E-02	1224745E-01	8943651E-00
3779645E-00	2308811E-02	2500000E-04	4592783E-04	5832000E-04	6803361E-01
4629180E-00	7142712E-04	1800000E-02	6301312E-03	1653406E-04	1715000E-05
1102270E-04	5511352E-05	2916000E-06	3965000E-00		
CASE NUMBER	573			GROUP NUMBER	1
2828427E-01	1414214E-03	5000000E-02	7071068E-02	1414214E-01	1089045E-01
3779645E-00	5091169E-02	2500000E-04	7071068E-04	5832000E-04	6803361E-01
5345225E-00	6247802E-04	1800000E-02	9701505E-03	2545584E-04	1715000E-05
1272792E-04	6363961E-05	2916000E-06	4116000E-00		
CASE NUMBER	574			GROUP NUMBER	1
3852847E-01	1978044E-03	5000000E-02	7805894E-02	1581139E-01	1494036E-01
3779645E-00	7115125E-02	2500000E-04	5882118E-04	5832000E-04	6803361E-01
5976181E-00	8221202E-04	1800000E-02	1355827E-04	3557562E-04	1715000E-05
1423025E-04	7115125E-05	2916000E-06	4374000E-00		
CASE NUMBER	575			GROUP NUMBER	1
5196132E-01	2580078E-03	5000000E-02	8660294E-02	1732051E-01	1963961E-01
3779645E-00	3353074E-02	2500000E-04	1299038E-05	5832000E-04	6803361E-01
6546537E-00	1010132E-05	1800000E-02	1782280E-04	4676537E-04	1715000E-05
1558846E-04	7794228E-05	2916000E-06	4734000E-00		
CASE NUMBER	576			GROUP NUMBER	1
6567806E-01	3273950E-03	5000000E-02	9354143E-02	1870829E-01	2474874E-01
3779645E-00	1176622E-02	2500000E-04	1826875E-05	5832000E-04	6803361E-01
7071068E-00	1001067E-05	1800000E-02	2248930E-04	5893110E-04	1715000E-05
1682748E-04	8418729E-05	2916000E-06	5211000E-00		

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER 577	GROUP NUMBER 1
1000000E-01-0000000E-02-5000000E-02-1000000E-03-2000000E-01-302371E-01-3600000E-02-3430000E-03	
377845E-00-1400000E-03-2500000E-04-2000000E-05-5822000E-04-8003361E-01-8575000E-06-188922E-02	
75328E-00-1164000E-05-1800000E-02-2744000E-04-7200000E-04-1715000E-05-3600000E-06-4665600E-05	
1800000E-04-0000000E-05-2916000E-06-5474000E-00	
CASE NUMBER 578	GROUP NUMBER 1
8301867E-01-4150934E-03-5000000E-02-1012423E-03-2024846E-01-3137811E-01-3644722E-02-3430000E-03	
377845E-00-1494336E-03-2500000E-04-2075467E-05-5822000E-04-8003361E-01-8575000E-06-188922E-02	
7853197E-00-1180890E-05-1800000E-02-2847540E-04-7471681E-04-1715000E-05-3735840E-06-4841648E-05	
1822381E-04-8111806E-05-2916000E-06-5496000E-00	
CASE NUMBER 579	GROUP NUMBER 1
8607439E-01-4303719E-03-5000000E-02-1024685E-03-2049390E-01-3253728E-01-3688902E-02-3430000E-03	
377845E-00-1549339E-03-2500000E-04-2151840E-05-5822000E-04-8003361E-01-8575000E-06-188922E-02	
7745967E-00-1195204E-05-1800000E-02-2952315E-04-7746895E-04-1715000E-05-3873347E-06-5019858E-05	
1844451E-04-8222256E-05-2916000E-06-5502000E-00	
CASE NUMBER 580	GROUP NUMBER 1
8916670E-01-4458335E-03-5000000E-02-1036822E-03-2073644E-01-3370184E-01-3732558E-02-3430000E-03	
377845E-00-1605001E-03-2500000E-04-2229167E-05-5822000E-04-8003361E-01-8575000E-06-188922E-02	
7837838E-00-1209349E-05-1800000E-02-3058418E-04-8025003E-04-1715000E-05-4012501E-06-5200202E-05	
1866280E-04-8331399E-05-2916000E-06-5505000E-00	
CASE NUMBER 581	GROUP NUMBER 1
9328518E-01-4614759E-03-5000000E-02-1048809E-03-2097818E-01-3489420E-01-3775712E-02-3430000E-03	
377845E-00-1661313E-03-2500000E-04-2307378E-05-5822000E-04-8003361E-01-8575000E-06-188922E-02	
7928250E-00-1223331E-05-1800000E-02-3165725E-04-8306566E-04-1715000E-05-4153283E-06-5382655E-05	
1867856E-04-8439280E-05-2916000E-06-5543000E-00	
CASE NUMBER 582	GROUP NUMBER 1
9545942E-01-4772971E-03-5000000E-02-1060600E-03-2121320E-01-3608027E-01-3818377E-02-3430000E-03	
377845E-00-1718268E-03-2500000E-04-2386485E-05-5822000E-04-8003361E-01-8575000E-06-188922E-02	
8017837E-00-1237154E-05-1800000E-02-3274258E-04-8591347E-04-1715000E-05-4295674E-06-5567193E-05	
1808188E-04-954542E-05-2916000E-06-5598000E-00	
CASE NUMBER 583	GROUP NUMBER 1
0-0-5000000E-020-0-0-5822000E-04-6000000E-01-1822500E-07-7290000E-03	
3333333E-000-2500000E-040-0-0-1800000E-020-0-3645000E-050-1822500E-07-1666667E-02	
0-0-1800000E-020-0-0-2916000E-06-3165000E-000-0-0-0-0	
CASE NUMBER 584	GROUP NUMBER 1
3535534E-00-1767767E-02-5000000E-02-3535534E-02-7071068E-00-1178511E-00-1272792E-02-7290000E-03	
3333333E-00-6363961E-01-2500000E-04-8828235E-03-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
2257023E-00-4123847E-04-1800000E-02-2577404E-03-3181981E-03-3645000E-05-1590990E-05-2061923E-04	
6383961E-03-3181981E-05-2916000E-06-3504000E-00	

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER 585	GROUP NUMBER 1
1000000E-01-0000000E-02-5000000E-02-5000000E-02-1000000E-01-3333333E-00-1800000E-02-7290000E-03	
3333333E-00-1800000E-02-2500000E-04-2500000E-04-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
3333333E-00-5822000E-04-1800000E-02-7290000E-03-9000000E-03-3645000E-05-4500000E-05-5822000E-04	
9000000E-03-4500000E-05-2916000E-06-3818000E-00	
CASE NUMBER 586	GROUP NUMBER 1
837117E-01-8185587E-02-5000000E-02-6123724E-02-1224745E-01-6123724E-00-2204541E-02-7290000E-03	
3333333E-00-3306811E-02-2500000E-04-4582792E-04-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
4082483E-00-7142712E-04-1800000E-02-1339258E-04-1653406E-04-3645000E-05-8267028E-05-1071407E-05	
1102270E-04-3511352E-05-2916000E-06-4050000E-00	
CASE NUMBER 587	GROUP NUMBER 1
2828427E-01-1414214E-03-5000000E-02-7071068E-02-1414214E-01-9428090E-00-2545584E-02-7290000E-03	
3333333E-00-5091169E-02-2500000E-04-7071068E-04-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
4714045E-00-8247633E-04-1800000E-02-2061823E-04-2545584E-04-3645000E-05-1272792E-02-1649538E-05	
1272792E-04-8383961E-05-2916000E-06-4256000E-00	
CASE NUMBER 588	GROUP NUMBER 1
3852847E-01-1876424E-03-5000000E-02-7905694E-02-1581139E-01-1317616E-01-2844050E-02-7290000E-03	
3333333E-00-7115125E-02-2500000E-04-8882118E-04-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
5270443E-00-8221202E-04-1800000E-02-2881626E-04-3557562E-04-3645000E-05-1778781E-06-2305300E-05	
1423025E-04-7115125E-05-2916000E-06-4701000E-00	
CASE NUMBER 589	GROUP NUMBER 1
5196152E-01-2598076E-03-5000000E-02-8660254E-02-1732051E-01-1732051E-01-3117681E-02-7290000E-03	
3333333E-00-9353074E-02-2500000E-04-1299038E-05-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
5775503E-00-1010132E-05-1800000E-02-3787995E-04-4676537E-04-3645000E-05-2338269E-06-3030296E-05	
1558886E-04-7794229E-05-2916000E-06-5100000E-00	
CASE NUMBER 590	GROUP NUMBER 1
6547900E-01-3273950E-03-5000000E-02-9354143E-02-1870829E-01-2182433E-01-2367482E-02-7290000E-03	
3333333E-00-1716622E-02-2500000E-04-1638975E-05-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
8236098E-00-1091067E-05-1800000E-02-4772419E-04-5893110E-04-3645000E-05-2948555E-06-3818726E-05	
1683746E-04-8418728E-05-2916000E-06-5482000E-00	
CASE NUMBER 591	GROUP NUMBER 1
8820520E-01-3415260E-03-5000000E-02-9486833E-02-1897367E-01-2278640E-01-3415260E-02-7290000E-03	
3333333E-00-1229494E-02-2500000E-04-1707630E-05-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
8324555E-00-1108544E-05-1800000E-02-4976449E-04-6147488E-04-3645000E-05-3073734E-06-3982558E-05	
1707630E-04-8838150E-05-2916000E-06-5495000E-00	
CASE NUMBER 592	GROUP NUMBER 1
7117097E-01-3585546E-03-5000000E-02-9617692E-02-1923538E-01-2372344E-01-2462248E-02-7290000E-03	
3333333E-00-1261077E-02-2500000E-04-1779273E-05-5822000E-04-6000000E-01-1822500E-07-1666667E-02	
6411795E-00-1121808E-05-1800000E-02-5188360E-04-6405782E-04-3645000E-05-3202691E-06-4150686E-05	
731185E-04-885923E-05-2916000E-06-5500000E-00	

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	593	GROUP NUMBER	1
7407564E-01	3703782E-03	5000000E-02	9746794E-02
3333333E-00	1333331E-03	2500000E-04	1851891E-05
6497883E-00	1136868E-05	1800000E-02	5400114E-04
1754423E-04	8772115E-05	2916000E-06	5507000E-00
CASE NUMBER	594	GROUP NUMBER	1
7701883E-01	3858941E-03	5000000E-02	8874209E-02
3333333E-00	1386339E-03	2500000E-04	1825471E-05
6582806E-00	1151728E-05	1800000E-02	5614673E-04
1777358E-04	8886788E-05	2916000E-06	5555000E-00
CASE NUMBER	595	GROUP NUMBER	1
8000000E-01	4000000E-03	5000000E-02	1000000E-03
3333333E-00	1440000E-03	2500000E-04	2000000E-05
6666667E-00	1166400E-05	1800000E-02	5832000E-04
1800000E-04	9000000E-05	2916000E-06	5611000E-00
CASE NUMBER	596	GROUP NUMBER	1
0	0	5000000E-020	0
0	0	2500000E-040	0
0	0	1800000E-020	0
0	0	2916000E-06	3200000E-00
CASE NUMBER	597	GROUP NUMBER	1
3535534E-00	1767767E-02	5000000E-02	3535534E-02
3162278E-00	6363961E-01	2500000E-04	8838835E-03
2236058E-00	4123847E-04	1800000E-02	253534E-02
6363961E-03	3181981E-05	2916000E-06	3545000E-00
CASE NUMBER	598	GROUP NUMBER	1
1000000E-01	5000000E-03	5000000E-02	5000000E-02
3162278E-00	1800000E-02	2500000E-04	2500000E-04
3162278E-00	3832000E-04	1800000E-02	1000000E-04
9000000E-03	4500000E-05	2916000E-06	3882000E-00
CASE NUMBER	599	GROUP NUMBER	1
1837117E-01	9185587E-02	5000000E-02	8123724E-02
3162278E-00	3306811E-02	2500000E-04	4592782E-04
3872983E-00	7142712E-04	1800000E-02	1837117E-04
1102270E-04	5511352E-05	2916000E-06	4170000E-00
CASE NUMBER	600	GROUP NUMBER	1
2828427E-01	1414214E-03	5000000E-02	7071068E-02
3162278E-00	3091189E-02	2500000E-04	7071068E-04
4472136E-00	8247693E-04	1800000E-02	2828427E-04
1272792E-04	6363961E-05	2916000E-06	4487000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED
DATA INPUT

CASE NUMBER	601	GROUP NUMBER	1
3932847E-01	1978424E-03	5000000E-02	7905684E-02
3162278E-00	7118125E-02	2500000E-04	9882118E-04
5000000E-00	9221202E-04	1800000E-02	3952847E-04
1423025E-04	7118125E-05	2916000E-06	4808000E-00
CASE NUMBER	602	GROUP NUMBER	1
5186152E-01	2598076E-03	5000000E-02	8660254E-02
3162278E-00	9252074E-02	2500000E-04	1299038E-05
5477228E-00	1010132E-03	1800000E-02	5186152E-04
1558948E-04	7794229E-05	2916000E-06	5217000E-00
CASE NUMBER	603	GROUP NUMBER	1
5547900E-01	1273950E-03	5000000E-02	9354143E-02
3162278E-00	1178622E-03	2500000E-04	1636975E-05
5916080E-00	1091067E-05	1800000E-02	6547900E-04
1683746E-04	8418729E-05	2916000E-06	5500000E-00
CASE NUMBER	604	GROUP NUMBER	1
6830520E-01	3415260E-03	5000000E-02	9486832E-02
3162278E-00	1228494E-03	2500000E-04	1707630E-05
4000000E-00	1108544E-05	1800000E-02	8830520E-04
1707630E-04	8538150E-05	2916000E-06	5509000E-00
CASE NUMBER	605	GROUP NUMBER	1
7117052E-01	3558546E-03	5000000E-02	8617882E-02
3162278E-00	1281077E-03	2500000E-04	1778273E-05
4082743E-00	1121808E-05	1800000E-02	7117052E-04
1731185E-04	8655923E-05	2916000E-06	5568000E-00
CASE NUMBER	606	GROUP NUMBER	1
7407564E-01	3703782E-03	5000000E-02	9746794E-02
3162278E-00	1232281E-02	2500000E-04	1851891E-05
6184414E-00	1136868E-05	1800000E-02	7407564E-04
1754423E-04	8772115E-05	2916000E-06	5629000E-00
CASE NUMBER	607	GROUP NUMBER	1
0	0	5000000E-020	0
0	0	2500000E-040	0
0	0	1800000E-020	0
0	0	2916000E-06	3348000E-00
CASE NUMBER	608	GROUP NUMBER	1
3535534E-00	1767767E-02	5000000E-02	3535534E-02
2986751E-00	6363961E-01	2500000E-04	8838835E-03
2041261E-00	4123847E-04	1800000E-02	6109402E-03
6363961E-03	3181981E-05	2916000E-06	3707000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 609

1000000E-01	5000000E-02	5000000E-02	5000000E-02	1000000E-01	2886751E-00	1800000E-02	1728000E-04
2886751E-00	1800000E-02	2500000E-04	2500000E-04	5832000E-04	5186152E-01	4320000E-07	1443377E-02
2886751E-00	5832000E-04	1800000E-02	1728000E-04	9000000E-03	8640000E-05	4500000E-05	5832000E-04
5832000E-03	4500000E-05	2916000E-06	4078000E-00				

CASE NUMBER 610

1837117E-01	9185587E-02	5000000E-02	6123724E-01	1224745E-01	5303130E-00	-2204541E-02	17280000E-04
2886751E-01	3004881E-02	2500000E-04	4592793E-04	5832000E-04	-5198152E-01	4320000E-07	1443378E-02
2535534E-00	7142772E-04	1800000E-02	3174539E-04	1651406E-04	-8640000E-05	8267028E-05	1071407E-05
1102270E-04	5511352E-05	2816000E-06	4378000E-00				

CASE NUMBER 611

2828427E+01	-1414214E+03	5000000E+02	7071068E+04	1414214E+01	-8164986E+00	2545584E+02	1728000E+04
2888751E+00	-5091169E+02	2500000E+04	7071068E+04	5812000E+01	-5196152E+01	4130000E+07	1443176E+02
4082483E+00	8247993E+04	1800000E+02	4887522E+04	2545584E+02	-8640000E+05	1272792E+06	1649519E+05
1272792E+04	6367691E+05	2915000E+06	4887522E+00				

CASE NUMBER 612

79522847E-01	-8776424E+03	55000000E-02	79056949E-02	1.581135E+01	114.1099E+01	2846450E+02	1728000E+04
28866751E-00	1015424E+02	25000000E-04	9802118E+04	5832000E+04	5186152E+01	4320000E+07	1443317E+02
45643355E-00	8221207E+04	1800000E-02	6830320E+04	3557562E+04	8640000E+05	1778781E+06	2305300E+05
1423025E-04	9115125E+05	2916000E+06	5026000E+00				

CASE NUMBER 613

5.186152E-01	2558076E-03	5000000E-02	4840254E-02	1732051E-01	1500000E-01	3117691E-02	1728000E-04
2886751E-00	8330764E-02	2500000E-01	1290038E-05	5832000E-04	5.196152E-01	4320000E-07	1443374E-02
1500000E-00	1010132E-05	1800000E-02	8578951E-04	46746537E-04	8640000E-05	2338268E-06	3030396E-05
5588846E-04	7794228E-05	2816000E-06	5487800E-00				

CASE NUMBER 614

5458117E-01	-2729057E-03	25000000E-02	8803408E-02	1760682E-01	-1576522E-01	3169227E-02	1728000E-04
2886751E-00	8824646E-02	5000000E-04	1264528E-05	5832000E-01	5196152E-01	4320000E-07	1443374E-02
5082450E-00	1026810E-05	1800000E-02	9431620E-04	4812302E-04	8640000E+05	2456151E-06	3183172E-05
1584614E-04	7923368E-05	2916000E-06	5489000E+00				

CASE NUMBER 015

5726434E-01	2862167E-03	5000000E-02	8944272E-02	1788554E-01	1652473E-01	3218938E-01	1728000E-04
2882151E-00	1030380E-03	2500000E-03	1421084E-05	9672000E-04	15196152E-01	4320000E-07	1443376E-02
5163978E-00	1043260E-05	2000000E-02	9891649E-04	5151901E-04	8640000E-05	2575950E-06	3338432E-05
8049849E-04	8049849E-05	2916000E-06	5070000E-00				

CASE NUMBER 616

5394748E-01	2997374E-03	5000000E-02	9042851E-02	1816590E-01	1730535E-01	3259866E-02	1728000E-04
2886751E-00	1079055E-03	2500000E-04	4485687E-05	5823000E-04	5196152E-01	4320000E-07	1443376E-02
5244004E-00	1059425E-05	1800000E-02	1073892E-05	5395273E-04	8840000E-05	2697636E-06	3496137E-05
1634931E-04	8174856E-05	2916000E-06	5547000E-00				

Keywords: child sexual abuse; disclosure; social support

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 617

2268290E-01	-31.34465E+03	55000000E-02	3219514E+02	1843090E-01	1803978E-01	3329036E-02	1720000E-04
2826571E-00	1128472E+03	25000000E-04	567322E+05	5832000E-04	5196152E-01	4319000E-07	1443376E-02
5322906E-00	1075368E-05	1800000E-02	1083333E-05	5642361E-04	8840000E-05	2821191E-06	3856250E-05
1585518E-04	8297590E+05	2916000E-06	5608000E+00				

CASE NUMBER 618

0	0	- 5000000E+00	0	0	0	0	1048625E+04
2826129E+00	0	2500000E+00	- 5832000E+04	4727032E+01	7621562E+07	131064E+02	0
0	0	- 1800000E+00	0	0	0	0	0
0	0	2516000E+06	1455200E+00	0	0	0	0

CASE NUMBER 619

2523514E-00	-17677767E-02	5000000E-02	3535334E-02	7071088E-04	-9278767E-01	-1272792E-02	3048625E-04
2626129E-00	-6363881E-01	2500000E-04	8838385E-03	5632000E-04	-4727032E-01	7621596E-07	1313046E-02
1858953E-00	-4123847E-04	1800000E-02	1077852E-04	3181981E-03	-1524313E-06	-1590990E-05	-2061923E-04
6363961E-03	3181981E-05	2816000E-06	3857000E+00				

CASE NUMBER 620

```

20262129E-001 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2626129E+00 1800000E+02 3048625E+04
2626129E+00 1800000E+02 2500000E+04 2500000E+04 5832000E+04 7272032E+01 7621562E+07 1313064E+02
2626129E+00 5832000E+04 1800000E+02 3048625E+04 9000000E+03 1524312E+06 4500000E+05 5832000E+04
5000000E+03 4500000E+05 2918000E+06 4254000E+00

```

CASE NUMBER 62:

```

1.750334E+01  875.1668E+02  50000000E+02  60257339E+02  1205148E+01  4566601E+00  2188266E+02  3048625E+04
202281.29E+00  3150801E+02  25000000E+02  4375834E+04  5832004E+04  4727032E+01  7621568E+07  1313064E+02
3.164873E+00  7028421E+04  18000000E+02  5336111E+04  1575330E+04  1524313E+06  7876501E+05  1020795E+05
1048633E+04  5423165E+05  2918000E+06  4555000E+00

```

CASE NUMBER 622

2028247E-01	-1414214E+03	5000000E+02	7071088E+02	-1414214E+01	-7427814E+00	-2545584E-02	3048625E-04
2028248E-00	-5091168E+02	2500000E+04	7071088E+04	-5932000E+01	-7427032E+01	-7621584E-07	-1313064E-02
2713907E-00	-8247893E+04	-1800000E+02	8622814E+04	-2545584E+04	-1524313E+06	-1272792E+06	-1649538E+05
1272792E-04	-8263961E+05	2816000E+06	4925000E+00				

CASE NUMBER 623

2952947E-01	7176424E-03	5000000E-02	7950484E-02	1581139E-01	1038068E-01	2648050E-02	1048625E-04
2628129E-00	9115125E-02	2500000E-04	8482118E-04	5832000E-04	4727032E-01	7621562E-07	1313044E-02
5152274E-00	9221202E-04	1800000E-02	1205075E-05	3557562E-04	1524313E-06	1778781E-06	2305200E-05
1423025E-04	7215125E-05	2916000E-06	5342000E-00				

CASE NUMBER 624

4192374E-01	7956187E-03	5000000E-02	8062253E-01	1100971E-01	2902413E-02	3048625E-04
2628129E-00	2584273E-02	2500000E-01	1042089E-05	5832000E-04	4727032E-01	7621562E-07
4234505E-00	5403817E-01	1600000E-02	1278098E-05	2773127E-04	1524213E-06	1886568E-06
1451206E-04	7256032E-05	2916000E-06	5438000E-00			2444993E-05

FRIDAY, JUL 2, 1976

NADC-77036-30

FRIDAY JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER
3535534E+000	7071068E+00
3333333E+000	1178511E+00
2357023E+000	1272792E+02
1800000E+02	7290000E+03
2577404E+030	5832000E+04
3310000E+00	6000000E+010
1000000E+010	2061923E+04
3333333E+000	1000000E+01
1800000E+020	3333333E+00
5832000E+04	1800000E+02
7290000E+030	7290000E+03
3601000E+00	5832000E+04
1800000E+02	6000000E+010
1224745E+01	6123724E+00
8123724E+00	2204541E+02
5832000E+04	7290000E+03
6000000E+010	1071407E+05
1224745E+01	8123724E+00
8123724E+00	2204541E+02
5832000E+04	7290000E+03
6000000E+010	1071407E+05
1414214E+01	8428090E+00
2545584E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	1649539E+05
1581138E+01	1317691E+02
2846050E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	2305300E+05
1732051E+01	1732051E+01
3117691E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	3030366E+05
1732051E+01	1732051E+01
3117691E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	3030366E+05
1870829E+01	2182632E+01
3367492E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	3818736E+05
1870829E+01	2182632E+01
3367492E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	3818736E+05
1897367E+01	2276840E+01
3415260E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	3983559E+05
1897367E+01	2276840E+01
3415260E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	3983559E+05

FRIDAY JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER	GROUP NUMBER
717082E+010	1923538E+01
3333333E+000	2172364E+01
1281077E+030	3462369E+02
1800000E+02	7290000E+03
5188360E+040	5832000E+04
5259000E+00	6000000E+010
6000000E+010	4150688E+05
7407564E+010	1949359E+01
3333333E+000	2469188E+01
1333333E+030	3508846E+02
1800000E+02	7290000E+03
5400114E+040	5832000E+04
5328000E+00	6000000E+010
6000000E+010	4320091E+05
1974842E+01	2567294E+01
3554715E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	4491738E+05
1974842E+01	2567294E+01
3554715E+02	7290000E+03
5832000E+04	6000000E+010
6000000E+010	4491738E+05
5614873E+040	5402000E+00
5402000E+00	1000000E+04
5832000E+04	5692100E+010
5692100E+010	1000000E+04
3535534E+000	7071068E+00
3162278E+000	1118034E+00
1272792E+02	1000000E+04
1800000E+02	5832000E+04
5692100E+010	2061923E+04
3535534E+000	7071068E+00
3162278E+000	1118034E+00
1272792E+02	1000000E+04
1800000E+02	5832000E+04
5692100E+010	2061923E+04
1000000E+010	1000000E+01
3162278E+000	3162278E+00
1800000E+02	1000000E+02
1000000E+040	1000000E+04
3699000E+00	5832000E+04
5832000E+04	5692100E+010
5692100E+010	5832000E+04
1224745E+01	8089475E+00
2204541E+02	1000000E+04
5832000E+04	5692100E+010
5692100E+010	1071407E+05
1224745E+01	8089475E+00
2204541E+02	1000000E+04
5832000E+04	5692100E+010
5692100E+010	1071407E+05
1414214E+01	8844272E+00
2545584E+02	1000000E+04
5832000E+04	5692100E+010
5692100E+010	1649539E+05
1414214E+01	8844272E+00
2545584E+02	1000000E+04
5832000E+04	5692100E+010
5692100E+010	1649539E+05

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 657
3952847E-010 0 0 1581138E-01 250000E-01 2846050E-02 1000000E-04
3162278E-00 7115125E-020 0 5832000E-04 5682100E-010 0
5000000E-00 8221202E-04 1800000E-02 2952847E-040 0 2305300E-05
0 0 4460000E-00
CASE NUMBER 658
5196152E-010 0 0 1732051E-01 1643168E-01 3117691E-02 1000000E-04
3162278E-00 9353074E-020 0 5832000E-04 5682100E-010 0
5477226E-00 1010132E-05 1800000E-02 5196152E-040 0 3030396E-05
0 0 4797000E-00
CASE NUMBER 659
6547900E-010 0 0 1870829E-01 2070428E-01 3367482E-02 1000000E-04
3162278E-00 1178622E-020 0 5832000E-04 5682100E-010 0
5916080E-00 1081067E-05 1800000E-02 6547900E-040 0 3818736E-05
0 0 5273000E-00
CASE NUMBER 660
6830520E-010 0 0 1897367E-01 2180000E-01 3415260E-02 1000000E-04
3162278E-00 1229484E-030 0 5832000E-04 5682100E-010 0
6000000E-00 1108544E-05 1800000E-02 6830520E-040 0 3983559E-05
0 0 5343000E-00
CASE NUMBER 661
2886751E-000 0 0 5832000E-04 5196152E-010 0 1728000E-04
0 0 1800000E-020 0 0 0
0 0 3172000E-00
CASE NUMBER 662
353534E-000 0 0 7071068E-00 1020621E-00 1272792E-02 1728000E-04
2886751E-00 6363961E-010 0 5832000E-04 5196152E-010 0
2041241E-00 4123847E-04 1800000E-02 6109403E-030 0 2061923E-04
0 0 3511000E-00
CASE NUMBER 663
1000000E-010 0 0 1000000E-01 2886751E-00 1800000E-02 1728000E-04
2886751E-00 1800000E-020 0 5832000E-04 5196152E-010 0
2886751E-00 5832000E-04 1800000E-02 1728000E-040 0 5832000E-04
0 0 5832000E-00
CASE NUMBER 664
1837117E-010 0 0 1224745E-01 5203301E-00 2204541E-02 1728000E-04
2886751E-00 3306811E-020 0 5832000E-04 5196152E-010 0
353534E-00 7142712E-04 1800000E-02 3174539E-040 0 1071407E-05
0 0 4074000E-00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 665
2886751E-010 0 0 1414214E-01 8184666E-00 2545584E-02 1728000E-04
2886751E-00 5091169E-020 0 5832000E-04 5196152E-010 0
4082483E-00 8247633E-04 1800000E-02 4887522E-040 0 1649539E-05
0 0 4243000E-00
CASE NUMBER 666
3952847E-010 0 0 1581138E-01 250000E-01 2846050E-02 1728000E-04
2886751E-00 7115125E-020 0 5832000E-04 5196152E-010 0
4564355E-00 8221202E-04 1800000E-02 2952847E-040 0 2305300E-05
0 0 4460000E-00
CASE NUMBER 667
5196152E-010 0 0 1732051E-01 1643168E-01 3117691E-02 1728000E-04
2886751E-00 9353074E-020 0 5832000E-04 5196152E-010 0
5000000E-00 1010132E-05 1800000E-02 5196152E-040 0 3030396E-05
0 0 4797000E-00
CASE NUMBER 668
5458113E-010 0 0 1760682E-01 1575622E-01 3169227E-02 1728000E-04
2886751E-00 9824604E-020 0 5832000E-04 5196152E-010 0
5082650E-00 1026830E-05 1800000E-02 9431620E-040 0 3183172E-05
0 0 5196000E-00
CASE NUMBER 669
5724334E-010 0 0 1788854E-01 1652473E-01 3219938E-02 1728000E-04
2886751E-00 1030380E-030 0 5832000E-04 5196152E-010 0
5182978E-00 1043260E-05 1800000E-02 8891649E-040 0 3338432E-05
0 0 5286000E-00
CASE NUMBER 670
2626129E-000 0 0 5832000E-04 4727032E-010 0 3048625E-04
0 0 1800000E-020 0 0 0
0 0 3270000E-00
CASE NUMBER 671
353534E-000 0 0 7071068E-00 1020621E-00 1272792E-02 3048625E-04
2626129E-00 6363961E-010 0 5832000E-04 4727032E-010 0
1858953E-00 4123847E-04 1800000E-02 1077852E-040 0 2061923E-04
0 0 2821000E-00
CASE NUMBER 672
1000000E-010 0 0 1000000E-01 2886751E-00 1800000E-02 3048625E-04
2626129E-00 1800000E-020 0 5832000E-04 4727032E-010 0
2626129E-00 5832000E-04 1800000E-02 3048625E-040 0 5832000E-04
0 0 3975000E-00

```


NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 673
1837117E+01 0. 0. 1224745E+01 6824500E+00 2204541E+02 3048625E+04
2626129E+00 3306811E+02 0. 5832000E+04 4727032E+01 0. 1071407E+05
3216338E+00 7142712E+04 1800000E+02 5600682E+04 0. 0. 0.
0. 0. 0. 4247000E+00 0. 0. 0.
CASE NUMBER 674
2828427E+01 0. 0. 1414214E+01 7427814E+00 2545584E+02 3048625E+04
2626129E+00 5091169E+02 0. 5832000E+04 4727032E+01 0. 0.
3713907E+00 8247693E+04 1800000E+02 8622814E+04 0. 0. 1649539E+05
0. 0. 0. 4562000E+00 0. 0. 0.
CASE NUMBER 675
3952847E+01 0. 0. 1581139E+01 1496036E+01 2846050E+02 3048625E+04
2626129E+00 7115125E+02 0. 5832000E+04 4727032E+01 0. 0.
4152274E+00 9221202E+04 1800000E+02 1205075E+05 0. 0. 2305300E+05
0. 0. 0. 4940000E+00 0. 0. 0.
CASE NUMBER 676
4192374E+01 0. 0. 1612452E+01 1100971E+01 2902413E+02 3048625E+04
2626129E+00 7546273E+02 0. 5832000E+04 4727032E+01 0. 0.
4234505E+00 9403817E+04 1800000E+02 1278098E+05 0. 0. 2444993E+05
0. 0. 0. 5029000E+00 0. 0. 0.
CASE NUMBER 677
0. 0. 1000000E+03 0. 0. 0. 3430000E+03
3779645E+00 0. 1000000E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
0. 0. 1800000E+02 0. 0. 3430000E+05 0.
0. 0. 5832000E+06 2648000E+00 0. 0. 0.
CASE NUMBER 678
3535534E+00 3535534E+02 1000000E+03 7071068E+02 7071068E+00 1236306E+00 1272792E+02 3430000E+03
3779645E+00 6363961E+01 1000000E+05 3535534E+04 5832000E+04 6803361E+01 3430000E+07 3779645E+02
2626129E+00 4123847E+04 1800000E+02 1212688E+03 6363961E+03 3430000E+05 6363961E+05 2061922E+04
1272792E+04 1272792E+06 5832000E+06 2896000E+00 0. 0. 0.
CASE NUMBER 679
1000000E+01 1000000E+03 1000000E+03 1000000E+01 3779645E+00 1800000E+02 3430000E+03
3779645E+00 1800000E+02 1000000E+05 1000000E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
3779645E+00 5832000E+04 1800000E+02 3430000E+03 1800000E+04 3430000E+05 1800000E+06 5832000E+04
1800000E+04 1800000E+06 5832000E+06 3132000E+00 0. 0. 0.
CASE NUMBER 680
1837117E+01 1837117E+03 1000000E+03 1224745E+03 1224745E+01 6824500E+00 2204541E+02 3430000E+03
3779645E+00 3306811E+02 1000000E+05 837117E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
4629100E+00 7142712E+04 1800000E+02 6301312E+03 3306811E+04 3430000E+05 3306811E+06 1071407E+05
2204541E+04 2204541E+06 5832000E+06 3333000E+00 0. 0. 0.

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 681
2828427E+01 2828427E+03 1000000E+03 1414214E+03 1414214E+01 1066045E+01 2545584E+02 3430000E+03
3779645E+00 5091169E+02 1000000E+05 2828427E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
5345225E+00 8247693E+04 1800000E+02 9701505E+03 5091169E+04 3430000E+05 5091169E+06 1649539E+05
2545584E+04 2545584E+06 5832000E+06 3508000E+00 0. 0. 0.
CASE NUMBER 682
3952847E+01 3952847E+03 1000000E+03 1581139E+03 1581139E+01 1496036E+01 2846050E+02 3430000E+03
3779645E+00 7115125E+02 1000000E+05 3952847E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
5976143E+00 9221202E+04 1800000E+02 1355827E+04 7115125E+04 3430000E+05 7115125E+06 2305300E+05
2846050E+04 2846050E+06 5832000E+06 3722000E+00 0. 0. 0.
CASE NUMBER 683
5196152E+01 5196152E+03 1000000E+03 1732051E+03 1732051E+01 1963961E+01 3117691E+02 3430000E+03
3779645E+00 9353074E+02 1000000E+05 5196152E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
6546537E+00 1010132E+05 1800000E+02 1782280E+04 9353074E+04 3430000E+05 9353074E+06 3030396E+05
3117691E+04 3117691E+06 5832000E+06 3964000E+00 0. 0. 0.
CASE NUMBER 684
6547900E+01 6547900E+03 1000000E+03 1870829E+03 1870829E+01 2474874E+01 3367492E+02 3430000E+03
3779645E+00 1178622E+02 1000000E+05 6547900E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
7071068E+00 1091047E+05 1800000E+02 2245939E+04 1178622E+05 3430000E+05 1178622E+07 2818736E+05
3367492E+04 3367492E+06 5832000E+06 4242000E+00 0. 0. 0.
CASE NUMBER 685
8000000E+01 8000000E+03 1000000E+03 2000000E+03 2000000E+01 3023716E+01 3600000E+02 3430000E+03
3779645E+00 1440000E+05 1000000E+05 8000000E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
7559289E+00 1168400E+05 1800000E+02 2744000E+04 1440000E+05 3430000E+05 1440000E+07 4665600E+05
2600000E+04 2600000E+06 5832000E+06 4510000E+00 0. 0. 0.
CASE NUMBER 686
8301467E+01 8301467E+03 1000000E+03 2024846E+03 2024846E+01 3137811E+01 3644722E+02 3430000E+03
3779645E+00 1494336E+03 1000000E+05 8301467E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
7652197E+00 1180990E+05 1800000E+02 2847540E+04 1494336E+05 3430000E+05 1494336E+07 4841641E+05
3644722E+04 3644722E+06 5832000E+06 4574000E+00 0. 0. 0.
CASE NUMBER 687
0. 0. 1000000E+03 0. 0. 0. 7290000E+03
3333333E+00 0. 1000000E+05 5832000E+04 8000000E+01 7290000E+07 3333333E+02
0. 0. 1800000E+02 0. 0. 7290000E+05 0.
0. 0. 5832000E+06 2750000E+00 0. 0. 0.
CASE NUMBER 688
3535534E+00 3535534E+02 1000000E+03 7071068E+02 7071068E+00 1178611E+00 1272792E+02 3430000E+03
3333333E+00 6363961E+01 1000000E+05 3535534E+04 5832000E+04 6000000E+01 7290000E+07 3333333E+02
2357023E+00 4123847E+04 1800000E+02 2577404E+03 6363961E+03 7290000E+05 6363961E+05 2061922E+04
1272792E+04 1272792E+06 5832000E+06 3019000E+00 0. 0. 0.

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED DATA INPUT

CASE NUMBER	688	GROUP NUMBER	1
1000000E+01	1000000E+03	1000000E+03	1000000E+03
3333333E+00	1800000E+02	1000000E+05	1000000E+05
3333333E+00	5832000E+04	1800000E+02	7290000E+03
1800000E+04	1800000E+06	5832000E+04	7290000E+05
1800000E+04	5832000E+06	3259000E+00	
CASE NUMBER	690	GROUP NUMBER	1
1837117E+01	1837117E+03	1000000E+03	1224745E+03
3333333E+00	3306811E+02	1000000E+05	1837117E+05
4082483E+00	7142712E+04	1800000E+02	1338358E+04
2204541E+04	2204541E+06	5832000E+04	3448000E+00
CASE NUMBER	691	GROUP NUMBER	1
2828427E+01	2828427E+03	1000000E+03	1414214E+03
3333333E+00	5091169E+02	1000000E+05	2828427E+05
4714045E+00	8247693E+04	1800000E+02	2061923E+04
2545584E+04	2545584E+06	5832000E+04	3667000E+00
CASE NUMBER	692	GROUP NUMBER	1
3952847E+01	3952847E+03	1000000E+03	1581139E+03
3333333E+00	7115125E+02	1000000E+05	3952847E+05
5270483E+00	9221202E+04	1800000E+02	2881426E+04
2846050E+04	2846050E+06	5832000E+04	3915000E+00
CASE NUMBER	693	GROUP NUMBER	1
5196152E+01	5196152E+03	1000000E+03	1732051E+03
3333333E+00	9353074E+02	1000000E+05	5196152E+05
5773503E+00	1010132E+04	1800000E+02	3787995E+04
3117891E+04	3117891E+06	5832000E+04	4201000E+00
CASE NUMBER	694	GROUP NUMBER	1
8547900E+01	8547900E+03	1000000E+03	1870829E+03
3333333E+00	1178822E+02	1000000E+05	8547900E+05
4236096E+00	6810575E+04	1800000E+02	4773418E+04
3367492E+04	3367492E+06	5832000E+04	4525000E+00
CASE NUMBER	695	GROUP NUMBER	1
6830520E+01	6830520E+03	1000000E+03	1897367E+03
3333333E+00	1229494E+02	1000000E+05	6830520E+05
6324555E+00	1106544E+04	1800000E+02	4978448E+04
3415260E+04	3415260E+06	5832000E+04	4589000E+00
CASE NUMBER	696	GROUP NUMBER	1
0	0	1000000E+03	0
3162278E+00	0	1000000E+05	0
0	0	1800000E+02	0
0	0	5832000E+04	0
0	0	5832000E+06	2783000E+00

FRIDAY, JUL 2, 1976

TRANSGENERATED DATA INPUT

CASE NUMBER	697	GROUP NUMBER	1
3535534E+00	3535534E+02	1000000E+03	7071088E+02
3162278E+00	6363961E+01	1000000E+05	3535534E+04
2336086E+00	1132876E+04	1800000E+02	5355534E+03
1272782E+04	1272782E+06	5832000E+04	3054000E+00
CASE NUMBER	698	GROUP NUMBER	1
1000000E+01	1000000E+03	1000000E+03	1000000E+03
3162278E+00	1800000E+02	1000000E+05	1000000E+05
3162278E+00	5832000E+04	1800000E+02	1000000E+04
1800000E+04	1800000E+06	5832000E+04	3312000E+00
CASE NUMBER	699	GROUP NUMBER	1
1837117E+01	1837117E+03	1000000E+03	1224745E+03
3162278E+00	3306811E+02	1000000E+05	1837117E+05
3872983E+00	7142712E+04	1800000E+02	1837117E+04
2204541E+04	2204541E+06	5832000E+04	3517000E+00
CASE NUMBER	700	GROUP NUMBER	1
2828427E+01	2828427E+03	1000000E+03	1414214E+03
3162278E+00	5091169E+02	1000000E+05	2828427E+05
4472136E+00	8247693E+04	1800000E+02	2828427E+04
2545584E+04	2545584E+06	5832000E+04	3749000E+00
CASE NUMBER	701	GROUP NUMBER	1
3952847E+01	3952847E+03	1000000E+03	1581139E+03
3162278E+00	7115125E+02	1000000E+05	3952847E+05
5000000E+00	9221202E+04	1800000E+02	2852847E+04
2846050E+04	2846050E+06	5832000E+04	4014000E+00
CASE NUMBER	702	GROUP NUMBER	1
5196152E+01	5196152E+03	1000000E+03	1732051E+03
3162278E+00	9353074E+02	1000000E+05	5196152E+05
5477228E+00	1010132E+04	1800000E+02	5196152E+04
3117891E+04	3117891E+06	5832000E+04	4317000E+00
CASE NUMBER	703	GROUP NUMBER	1
8547900E+01	8547900E+03	1000000E+03	1870829E+03
3162278E+00	1178822E+02	1000000E+05	8547900E+05
5587784E+00	1028830E+04	1800000E+02	5458113E+04
3162278E+04	3162278E+06	5832000E+04	4380000E+00
CASE NUMBER	704	GROUP NUMBER	1
5724334E+01	5724334E+03	1000000E+03	1788854E+03
3162278E+00	1030380E+02	1000000E+05	5724334E+05
5656854E+00	1043260E+04	1800000E+02	5724334E+04
3219938E+04	3219938E+06	5832000E+04	4446000E+00

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 705
GROUP NUMBER 1
.5984748E-01 .5984748E-03 .1000000E-03 .1816590E-03 .1816590E-01 .1895706E-01 .3269862E-02 .1000000E-04
.3162278E-00 .1079055E-03 .1000000E-05 .5994748E-05 .5832000E-04 .5992100E-01 .1000000E-08 .3162278E-02
.5744563E-00 .1059435E-05 .1800000E-02 .5994748E-04 .1079055E-05 .1000000E-06 .1079055E-07 .3496137E-03
.3269862E-04 .3269862E-06 .5832000E-06 .4517000E-00
CASE NUMBER 706
GROUP NUMBER 1
0. 0. .1000000E-030. 0. 0. 0. 0. 1728000E-04
.2886751E-000. .1000000E-050. .5832000E-04. .5196152E-01. 1728000E-08. 2886751E-02
0. 0. .1800000E-020. 0. 0. 0. 0. 0.
0. 0. .5832000E-06. 2885000E-00
CASE NUMBER 707
GROUP NUMBER 1
.3535534E-00 .3535534E-02 .1000000E-03 .7071068E-02 .7071068E-00 .1020421E-00 .1272792E-02 .1728000E-04
.2886751E-00 .6263961E-01 .1000000E-05 .3535534E-04 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.2041241E-00 .4123847E-04 .1800000E-02 .6109403E-03 .6382981E-03 .1728000E-06 .6263961E-05 .2061923E-04
.1272792E-04 .1272792E-06 .5832000E-06 .3150000E-00
CASE NUMBER 708
GROUP NUMBER 1
.1000000E-01 .1000000E-03 .1000000E-03 .1000000E-03 .1000000E-01 .2886751E-00 .1800000E-02 .1728000E-04
.2886751E-00 .1800000E-02 .1000000E-05 .1000000E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.2886751E-00 .5832000E-04 .1800000E-02 .1728000E-04 .1800000E-04 .1728000E-06 .1800000E-06 .5832000E-04
.1800000E-04 .1800000E-06 .5832000E-06 .3425000E-00
CASE NUMBER 709
GROUP NUMBER 1
.1837117E-01 .1837117E-03 .1000000E-03 .1224745E-03 .1224745E-01 .5303701E-00 .2204541E-02 .1728000E-04
.2886751E-00 .3306811E-02 .1000000E-05 .1837117E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.3535534E-00 .7142712E-04 .1800000E-02 .3174528E-04 .3306811E-04 .1728000E-06 .3306811E-06 .1071407E-05
.2204541E-04 .2204541E-06 .5832000E-06 .3694000E-00
CASE NUMBER 710
GROUP NUMBER 1
.2828427E-01 .2828427E-03 .1000000E-03 .1414214E-03 .1414214E-01 .8164966E-00 .2545584E-02 .1728000E-04
.2886751E-00 .5091169E-02 .1000000E-05 .2828427E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4082493E-00 .8247693E-04 .1800000E-02 .4887522E-04 .5091169E-04 .1728000E-06 .5091169E-06 .1649539E-05
.2545584E-04 .2545584E-06 .5832000E-06 .3914000E-00
CASE NUMBER 711
GROUP NUMBER 1
.3952847E-01 .3952847E-03 .1000000E-03 .1581139E-03 .1581139E-01 .1141089E-01 .2846050E-02 .1728000E-04
.2886751E-00 .7115125E-02 .1000000E-05 .3952847E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4564355E-00 .8221202E-04 .1800000E-02 .6830520E-04 .7115125E-04 .1728000E-06 .7115125E-06 .2305200E-05
.2846050E-04 .2846050E-06 .5832000E-06 .4209000E-00
CASE NUMBER 712
GROUP NUMBER 1
.4192274E-01 .4192274E-03 .1000000E-03 .1612452E-03 .1612452E-01 .1270234E-01 .2902613E-02 .1728000E-04
.2886751E-00 .7546273E-02 .1000000E-05 .4192274E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4654747E-00 .9403817E-04 .1800000E-02 .7244422E-04 .7546273E-04 .1728000E-06 .7546273E-06 .2444992E-05
.2902613E-04 .2902613E-06 .5832000E-06 .4274000E-00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 713
GROUP NUMBER 1
.4436532E-01 .4436532E-03 .1000000E-03 .1643168E-03 .1643168E-01 .1280722E-01 .2957702E-02 .1728000E-04
.2886751E-00 .7985795E-02 .1000000E-05 .4436532E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4743416E-00 .5582954E-04 .1800000E-02 .7688383E-04 .7985795E-04 .1728000E-06 .7985795E-06 .2587398E-05
.2957702E-04 .2957702E-06 .5832000E-06 .4339000E-00
CASE NUMBER 714
GROUP NUMBER 1
.4685296E-01 .4685296E-03 .1000000E-03 .1673320E-03 .1673320E-01 .1352528E-01 .3011976E-02 .1728000E-04
.2886751E-00 .8435533E-02 .1000000E-05 .4685296E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4830459E-00 .9758803E-04 .1800000E-02 .8096192E-04 .8435533E-04 .1728000E-06 .8435533E-06 .2732465E-05
.3011976E-04 .3011976E-06 .5832000E-06 .4405000E-00
CASE NUMBER 715
GROUP NUMBER 1
0. 0. .1000000E-030. 0. 0. 0. 0. 3048625E-04
.2626129E-000. .1000000E-050. .5832000E-04. .4727032E-01. 3048625E-08. 2626129E-02
0. 0. .1800000E-020. 0. 0. 0. 0. 0.
0. 0. .5832000E-06. 2987000E-00
CASE NUMBER 716
GROUP NUMBER 1
.3535534E-00 .3535534E-02 .1000000E-03 .7071068E-02 .7071068E-00 .9284757E-01 .1272792E-02 .3048625E-04
.2626129E-00 .6263961E-01 .1000000E-05 .3535534E-04 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.1854953E-00 .4123847E-04 .1800000E-02 .1077852E-04 .6263961E-02 .3048625E-06 .6263961E-05 .2061923E-04
.1272792E-04 .1272792E-06 .5832000E-06 .3289000E-00
CASE NUMBER 717
GROUP NUMBER 1
.1000000E-01 .1000000E-03 .1000000E-03 .1000000E-03 .1000000E-01 .2626129E-00 .1800000E-02 .3048625E-04
.2626129E-00 .1800000E-02 .1000000E-05 .1000000E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.2626129E-00 .5832000E-04 .1800000E-02 .3048625E-04 .1800000E-04 .3048625E-06 .1800000E-06 .5832000E-04
.1800000E-04 .1800000E-06 .5832000E-06 .3571000E-00
CASE NUMBER 718
GROUP NUMBER 1
.1837117E-01 .1837117E-03 .1000000E-03 .1224745E-03 .1224745E-01 .4824506E-00 .2204541E-02 .3048625E-04
.2626129E-00 .3306811E-02 .1000000E-05 .1837117E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.3214238E-00 .7142712E-04 .1800000E-02 .5600682E-04 .3306811E-04 .3048625E-06 .3306811E-06 .1071407E-05
.2204541E-04 .2204541E-06 .5832000E-06 .2831000E-00
CASE NUMBER 719
GROUP NUMBER 1
.2828427E-01 .2828427E-03 .1000000E-03 .1414214E-03 .1414214E-01 .7427814E-00 .2545584E-02 .3048625E-04
.2886751E-00 .5091169E-02 .1000000E-05 .2828427E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.3713907E-00 .8247693E-04 .1800000E-02 .8622814E-04 .5091169E-04 .3048625E-06 .5091169E-06 .1649539E-05
.2545584E-04 .2545584E-06 .5832000E-06 .4118000E-00
CASE NUMBER 720
GROUP NUMBER 1
.3043189E-01 .3043189E-03 .1000000E-03 .1449138E-03 .1449138E-01 .7991806E-00 .2608448E-02 .3048625E-04
.2626129E-00 .5477740E-02 .1000000E-05 .3043189E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.3095622E-00 .8451371E-04 .1800000E-02 .9277542E-04 .5477740E-04 .3048625E-06 .5477740E-06 .1774788E-05
.2608448E-04 .2608448E-06 .5832000E-06 .4178000E-00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 721
GROUP NUMBER 1
3263127E-01 3263127E-03 1000000E-03 1483240E-03 1483240E-01 8589392E-00 2648831E-02 3048625E-04
2626129E-00 5873629E-02 1000000E-05 3263127E-05 5832000E-04 4727032E-01 3048625E-08 2626129E-02
3895178E-00 8650254E-04 1000000E-02 3948052E-04 5873629E-04 3048625E-06 5873629E-08 1803056E-05
2648831E-04 2648831E-06 5832000E-06 4240000E-00
CASE NUMBER 722
GROUP NUMBER 1
3488123E-01 3488123E-02 1000000E-03 1516575E-03 1516575E-01 9160259E-00 272835E-02 3048625E-04
2626129E-00 6278621E-02 1000000E-05 3488123E-05 5832000E-04 4727032E-01 3048625E-08 2626129E-02
3982721E-00 8844666E-04 1800000E-02 1063398E-05 6278621E-04 3048625E-06 6278621E-08 2024273E-05
272835E-04 272835E-06 5832000E-06 4307000E-00
CASE NUMBER 723
GROUP NUMBER 1
0 0 2000000E-030 0 0 0 3430000E-03
3779645E-00 0 4000000E-050 5832000E-04 6803361E-01 1372000E-08 7559289E-02
0 0 1800000E-020 0 0 0 0
0 0 1166400E-07 2515000E-00
CASE NUMBER 724
GROUP NUMBER 1
3535534E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1336306E-00 1272792E-02 3430000E-03
3779645E-00 6382961E-01 4000000E-05 1414214E-05 5832000E-04 6803361E-01 1372000E-08 7559289E-02
2672612E-00 4123847E-04 1800000E-02 1212886E-03 1272792E-04 6860000E-05 2545584E-06 2061923E-04
2545584E-04 5091169E-06 1166400E-07 2724000E-00
CASE NUMBER 725
GROUP NUMBER 1
1800000E-01 2000000E-03 2000000E-03 2000000E-01 3779645E-00 1800000E-02 3430000E-03
3779645E-00 1800000E-02 4000000E-05 4000000E-05 5832000E-04 6803361E-01 1372000E-08 7559289E-02
3779645E-00 5832000E-04 1800000E-02 3430000E-03 3600000E-04 6860000E-05 7200000E-06 5832000E-04
3600000E-04 7200000E-06 1166400E-07 2867000E-00
CASE NUMBER 726
GROUP NUMBER 1
837117E-01 2674235E-03 2000000E-03 2449490E-03 1224745E-01 6943651E-00 2204541E-02 3430000E-03
3779645E-00 3306811E-02 4000000E-05 7348469E-05 5832000E-04 6803361E-01 1372000E-08 7559289E-02
4629100E-00 7142712E-04 1800000E-02 6301312E-03 6613622E-04 6860000E-05 1322724E-07 1071407E-05
4609082E-04 6818153E-08 1166400E-07 3021000E-00
CASE NUMBER 727
GROUP NUMBER 1
2828427E-01 5656894E-03 2000000E-03 2828427E-03 1414214E-01 1069045E-01 2545584E-02 3430000E-03
3779645E-00 5091169E-02 4000000E-05 1131371E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
5345225E-00 8247693E-04 1800000E-02 8701505E-03 1018234E-05 6860000E-05 2036468E-07 1649538E-05
5091169E-04 1018234E-07 1166400E-07 3212000E-00
CASE NUMBER 728
GROUP NUMBER 1
2952847E-01 7905894E-03 2000000E-03 3162278E-03 158139E-01 1494026E-01 2846050E-02 3430000E-03
3779645E-00 715125E-02 4000000E-05 158139E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
5976143E-00 9221202E-04 1800000E-02 1355827E-04 1423025E-05 6860000E-05 2846050E-07 2305300E-05
5992100E-04 1138420E-07 1166400E-07 3417000E-00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 729
GROUP NUMBER 1
5196152E-01 1039230E-04 2000000E-03 3464102E-03 1732051E-01 1963961E-01 3117691E-02 3430000E-03
3779645E-00 8232074E-02 4000000E-05 2078461E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
6548537E-00 1010132E-05 1800000E-02 1782280E-04 1870615E-05 6860000E-05 3741230E-07 2030396E-05
6235383E-04 747077E-07 1166400E-07 3645000E-00
CASE NUMBER 730
GROUP NUMBER 1
6547900E-01 1308580E-04 2000000E-03 3741657E-03 1876829E-01 2474874E-01 3367482E-02 3430000E-03
3779645E-00 1178622E-03 4000000E-05 2619150E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7071068E-00 1081067E-05 1800000E-02 2245830E-04 2357244E-05 6860000E-05 4714488E-07 3818736E-05
6734883E-04 1248997E-07 1166400E-07 3915000E-00
CASE NUMBER 731
GROUP NUMBER 1
6830520E-01 1366104E-04 2000000E-03 3794733E-03 1897367E-01 2581694E-01 3415260E-02 3430000E-03
3779645E-00 1229494E-03 4000000E-05 2732208E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7171372E-00 1106544E-05 1800000E-02 2342884E-04 2458987E-05 6860000E-05 4917974E-07 3983559E-05
6830520E-04 1366104E-07 1166400E-07 3965000E-00
CASE NUMBER 732
GROUP NUMBER 1
7117092E-01 1423418E-04 2000000E-03 3847077E-03 1923538E-01 2490908E-01 3442368E-02 3430000E-03
3779645E-00 1281077E-03 4000000E-05 2846837E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7270292E-00 1121808E-05 1800000E-02 2441183E-04 2562152E-05 6860000E-05 5124308E-07 4150688E-05
6824738E-04 1384948E-07 1166400E-07 4015000E-00
CASE NUMBER 733
GROUP NUMBER 1
7407564E-01 1481513E-04 2000000E-03 3898718E-03 1948359E-01 2799796E-01 3508846E-02 3430000E-03
3779645E-00 1323361E-03 4000000E-05 2963025E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7387884E-00 1138686E-05 1800000E-02 2540794E-04 2666723E-05 6860000E-05 5233448E-07 4320091E-05
7017692E-04 1403538E-07 1166400E-07 4069000E-00
CASE NUMBER 734
GROUP NUMBER 1
7701883E-01 1548277E-04 2000000E-03 3949684E-03 1974842E-01 2911038E-01 3554715E-02 3430000E-03
3779645E-00 1386336E-03 4000000E-05 3080753E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7484200E-00 1151728E-05 1800000E-02 2641746E-04 2772678E-05 6860000E-05 5545356E-07 4481738E-05
7109430E-04 1421866E-07 1166400E-07 4128000E-00
CASE NUMBER 735
GROUP NUMBER 1
8000000E-01 1600000E-04 2000000E-03 4000000E-03 2000000E-01 3023716E-01 3600000E-02 3430000E-03
3779645E-00 1440000E-03 4000000E-05 3200000E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7559289E-00 1166400E-05 1800000E-02 2744000E-04 2980000E-05 6860000E-05 5760000E-07 4655600E-05
7200000E-04 1440000E-07 1166400E-07 4184000E-00
CASE NUMBER 736
GROUP NUMBER 1
0 0 2000000E-030 0 0 0 7200000E-03
3333333E-000 4000000E-050 5832000E-04 6000000E-01 2816000E-08 6666667E-02
0 0 1800000E-020 0 0 0 0
0 0 1166400E-07 2572000E-00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 737 GROUP NUMBER 1
 3333333E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1178511E-00 1272782E-02 7290000E-03
 3333333E-00 6363636E-01 4000000E-05 1414214E-05 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 2557023E-00 4122847E-04 1800000E-02 2577404E-03 1272782E-04 1458000E-06 2545584E-06 2061823E-04
 2545584E-04 5091169E-06 1166400E-07 2799000E-00
 CASE NUMBER 738 GROUP NUMBER 1
 1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 3333333E-00 1800000E-02 7290000E-03
 3333333E-00 1800000E-02 4000000E-05 4000000E-05 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 3333333E-00 5832000E-04 1800000E-02 7290000E-03 3600000E-04 1458000E-06 7200000E-06 5832000E-04
 3600000E-04 7200000E-06 1166400E-07 2977000E-00
 CASE NUMBER 739 GROUP NUMBER 1
 1837117E-01 3674235E-03 2000000E-03 2449490E-03 1224745E-01 6123724E-00 2204541E-02 7290000E-03
 3333333E-00 3306811E-02 4000000E-05 7348469E-05 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 4082482E-00 7142712E-04 1800000E-02 1339259E-04 6613622E-04 1458000E-06 1222724E-07 1071407E-05
 4409082E-04 8818163E-06 1166400E-07 3163000E-00
 CASE NUMBER 740 GROUP NUMBER 1
 2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 9428090E-00 2545584E-02 7290000E-03
 3333333E-00 5091169E-02 4000000E-05 1131371E-06 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 4714045E-00 8247893E-04 1800000E-02 2061823E-04 1018234E-05 1458000E-06 2036468E-07 1649539E-05
 5091169E-04 1018234E-07 1166400E-07 3372000E-00
 CASE NUMBER 741 GROUP NUMBER 1
 3952847E-01 7905694E-03 2000000E-03 3162278E-03 1581139E-01 1317616E-01 2846050E-02 7290000E-03
 3333333E-00 7115125E-02 4000000E-05 1581139E-06 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 5270482E-00 9221202E-04 1800000E-02 2881626E-04 1423025E-05 1458000E-06 2846050E-07 2305300E-05
 5492100E-04 1138420E-07 1166400E-07 3606000E-00
 CASE NUMBER 742 GROUP NUMBER 1
 5186152E-01 1039230E-04 2000000E-03 3464102E-03 1732051E-01 1732051E-01 3117691E-02 7290000E-03
 3333333E-00 9353074E-02 4000000E-05 2078461E-06 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 5773503E-00 1010132E-05 1800000E-02 3787883E-04 1870615E-05 1458000E-06 3741230E-07 3030396E-05
 8235393E-04 1247077E-07 1166400E-07 2980000E-00
 CASE NUMBER 743 GROUP NUMBER 1
 5458113E-01 1081623E-04 2000000E-03 3521363E-03 1760582E-01 1818937E-01 3159227E-02 7290000E-03
 3333333E-00 5824604E-02 4000000E-05 2183245E-04 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 5868939E-00 1028830E-05 1800000E-02 3978965E-04 1864921E-05 1458000E-06 3829842E-07 3183172E-05
 6328454E-04 1267591E-07 1166400E-07 3940000E-00
 CASE NUMBER 744 GROUP NUMBER 1
 5724334E-01 1144867E-04 2000000E-03 3577709E-03 1788854E-01 1908111E-01 3219938E-02 7290000E-03
 3333333E-00 1030380E-03 4000000E-05 2289734E-04 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 5982848E-00 1043200E-05 1800000E-02 4173040E-04 2060760E-05 1458000E-06 4121520E-07 3378432E-05
 6439876E-04 1287975E-07 1166400E-07 4002000E-00

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 745 GROUP NUMBER 1
 5894748E-01 1198950E-04 2000000E-03 3633180E-03 1816590E-01 1998249E-01 3269667E-02 7290000E-03
 3333333E-00 1076055E-02 4000000E-05 2397899E-03 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 8055301E-00 1058435E-05 1800000E-02 4370171E-04 2158109E-05 1458000E-06 4316218E-07 3496137E-05
 6539725E-04 3079455E-07 1166400E-07 4068000E-00
 CASE NUMBER 746 GROUP NUMBER 1
 6269280E-01 1251858E-04 2000000E-03 3487818E-03 1843809E-01 2089763E-01 3319026E-02 7290000E-03
 3333333E-00 1128472E-02 4000000E-05 2507718E-06 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 6146363E-00 1075368E-05 1800000E-02 4570313E-04 2256844E-05 1458000E-06 4513888E-07 3656250E-05
 6636072E-04 1227614E-07 1166400E-07 4131000E-00
 CASE NUMBER 747 GROUP NUMBER 1
 0 0 2000000E-03 0 0 0 1000000E-04
 3162278E-00 4000000E-05 5832000E-04 5682100E-01 4000000E-08 6324555E-02
 0 0 1800000E-02 0 2000000E-06 0
 0 0 1166400E-07 2604000E-00
 CASE NUMBER 748 GROUP NUMBER 1
 3333333E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1118034E-00 1272782E-02 1000000E-04
 3162278E-00 4283961E-01 4000000E-05 1414214E-05 5832000E-04 5682100E-01 4000000E-08 6324555E-02
 2236080E-00 4123847E-04 1800000E-02 3335334E-03 1272782E-04 2000000E-06 2545584E-06 2061823E-04
 2545584E-04 5091169E-06 1166400E-07 2838000E-00
 CASE NUMBER 749 GROUP NUMBER 1
 1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 3162278E-00 1800000E-02 1000000E-04
 3162278E-00 1800000E-02 4000000E-05 4000000E-05 5832000E-04 5682100E-01 4000000E-08 6324555E-02
 3162278E-00 5832000E-04 1800000E-02 1000000E-04 3600000E-04 2000000E-06 7200000E-06 5832000E-04
 3600000E-04 7200000E-06 1166400E-07 3038000E-00
 CASE NUMBER 750 GROUP NUMBER 1
 1837117E-01 3674235E-03 2000000E-03 2449490E-03 1224745E-01 6123724E-00 2204541E-02 1000000E-04
 3162278E-00 3306811E-02 4000000E-05 7348469E-05 5832000E-04 6000000E-01 2916000E-08 6666667E-02
 3872983E-00 7142712E-04 1800000E-02 1837117E-04 6613622E-04 2000000E-06 1222724E-07 1071407E-05
 4409082E-04 8818163E-06 1166400E-07 3233000E-00
 CASE NUMBER 751 GROUP NUMBER 1
 2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 9444272E-00 2545584E-02 1000000E-04
 3162278E-00 5091169E-02 4000000E-05 1131371E-06 5832000E-04 5682100E-01 4000000E-08 6324555E-02
 4872136E-00 8247893E-04 1800000E-02 2828427E-04 1018234E-05 2000000E-06 2036468E-07 1649539E-05
 5091169E-04 1018234E-07 1166400E-07 3451000E-00
 CASE NUMBER 752 GROUP NUMBER 1
 3952847E-01 7905694E-03 2000000E-03 3162278E-03 1581139E-01 1350000E-01 2846050E-02 1000000E-04
 3162278E-00 7115125E-02 4000000E-05 1581139E-06 5832000E-04 5682100E-01 4000000E-08 6324555E-02
 5000000E-00 9221202E-04 1800000E-02 2828427E-04 1423025E-05 2000000E-06 2846050E-07 2305300E-05
 5492100E-04 1138420E-07 1166400E-07 3704000E-00

NADC-77036-30

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 753
GROUP NUMBER 1
.5186152E+01 .1893230E+04 .2000000E+03 .3484102E+03 .1732651E+01 .1849168E+01 .3117691E+02 .1000000E+04
.2162278E+00 .9353078E+02 .4000000E+05 .2078481E+08 .5832000E+04 .5892100E+01 .4000000E+08 .6224555E+02
.5477226E+00 .1010132E+05 .1800000E+02 .5196152E+04 .1870615E+05 .2000000E+06 .3741230E+07 .3030386E+05
.8235383E+04 .1247077E+07 .1166400E+07 .3988000E+00
CASE NUMBER 754
GROUP NUMBER 1
.5458113E+01 .091623E+04 .2000000E+03 .3521363E+03 .1760682E+01 .1726007E+01 .3169227E+02 .1000000E+04
.2162278E+00 .9324604E+02 .4000000E+05 .2183245E+08 .5832000E+04 .5892100E+01 .4000000E+08 .6224555E+02
.5567784E+00 .1026830E+05 .1800000E+02 .5458113E+04 .1964921E+05 .2000000E+06 .3829842E+07 .3183172E+05
.6338454E+04 .1267891E+07 .1166400E+07 .4062000E+00
CASE NUMBER 755
GROUP NUMBER 1
.0 .2000000E+03 .0 .0 .0 .0 .0 .0
.2886751E+00 .4000000E+05 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02 .0 .0
.0 .1800000E+02 .0 .0 .0 .0 .0 .0
.0 .1166400E+07 .2669000E+00
CASE NUMBER 756
GROUP NUMBER 1
.353534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1022621E+00 .1272792E+02 .1728000E+04
.2886751E+00 .6383961E+01 .4000000E+05 .1414214E+03 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02
.2041241E+00 .4123847E+04 .1800000E+02 .6109403E+03 .1272792E+04 .3456000E+06 .2545584E+06 .2061923E+04
.2545584E+04 .5091169E+06 .1166400E+07 .2922000E+00
CASE NUMBER 757
GROUP NUMBER 1
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04
.2886751E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+04 .3600000E+04 .3456000E+06 .7200000E+06 .5832000E+04
.3600000E+04 .7200000E+06 .1166400E+07 .3157000E+00
CASE NUMBER 758
GROUP NUMBER 1
.1837117E+01 .3674235E+03 .2000000E+03 .2449480E+03 .1224745E+01 .5303301E+00 .2204541E+02 .1728000E+04
.2886751E+00 .3304811E+02 .4000000E+05 .7348489E+05 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02
.353534E+00 .7142712E+04 .1800000E+02 .3174538E+04 .6613622E+04 .3456000E+06 .1322724E+07 .1071407E+05
.4409082E+04 .8818163E+06 .1166400E+07 .3369000E+00
CASE NUMBER 759
GROUP NUMBER 1
.2828427E+01 .5658054E+03 .2000000E+03 .2828427E+03 .1414214E+01 .8164866E+00 .2545584E+02 .1728000E+04
.2886751E+00 .5091169E+02 .4000000E+05 .1131371E+06 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02
.4082482E+00 .8247693E+04 .1800000E+02 .4887522E+04 .1018234E+05 .3456000E+06 .2036488E+07 .1649539E+05
.5091169E+04 .1018234E+07 .1166400E+07 .3613000E+00
CASE NUMBER 760
GROUP NUMBER 1
.2952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1141089E+01 .2846050E+02 .1728000E+04
.2886751E+00 .7115125E+02 .4000000E+05 .1581139E+01 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02
.4584355E+00 .9221202E+04 .1800000E+02 .6830520E+04 .1423025E+05 .3456000E+06 .2846050E+07 .2305300E+05
.5892100E+04 .1738420E+07 .1166400E+07 .3897000E+00

```

FRIDAY, JUL 2, 1976

```

TRANSGENERATED
DATA INPUT
CASE NUMBER 761
GROUP NUMBER 1
.4192374E+01 .8384748E+03 .2000000E+03 .3224903E+03 .1612452E+01 .1210234E+01 .2902413E+02 .1728000E+04
.2886751E+00 .7546271E+02 .4000000E+05 .1678550E+06 .5832000E+04 .5196152E+01 .8912000E+08 .5773503E+02
.4659747E+00 .9403817E+04 .1800000E+02 .7244422E+04 .1509255E+05 .3456000E+06 .3018509E+07 .2444993E+05
.5804826E+04 .1100965E+07 .1166400E+07 .2858000E+00
CASE NUMBER 762
GROUP NUMBER 1
.0 .2000000E+03 .0 .0 .0 .0 .0 .0
.2626129E+00 .4000000E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02 .0 .0
.0 .1800000E+02 .0 .0 .0 .0 .0 .0
.0 .1166400E+07 .2765000E+00
CASE NUMBER 763
GROUP NUMBER 1
.353534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .9284767E+01 .1272792E+02 .3048625E+04
.2886751E+00 .6383961E+01 .4000000E+05 .1414214E+03 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.1858953E+00 .4123847E+04 .1800000E+02 .1077853E+04 .1272792E+04 .6097250E+06 .2545584E+06 .2061923E+04
.2545584E+04 .5091169E+06 .1166400E+07 .3034000E+00
CASE NUMBER 764
GROUP NUMBER 1
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .2626129E+00 .1800000E+02 .3048625E+04
.2626129E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.2626129E+00 .5832000E+04 .1800000E+02 .3048625E+04 .3600000E+04 .3456000E+06 .7200000E+06 .5832000E+04
.3600000E+04 .7200000E+06 .1166400E+07 .3289000E+00
CASE NUMBER 765
GROUP NUMBER 1
.1837117E+01 .3674235E+03 .2000000E+03 .2449480E+03 .1224745E+01 .4824508E+00 .2204541E+02 .3048625E+04
.2626129E+00 .3642944E+02 .4000000E+05 .8095431E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3216338E+00 .7142712E+04 .1800000E+02 .5400682E+04 .6613622E+04 .6097250E+06 .1322724E+07 .1071407E+05
.4409082E+04 .8818163E+06 .1166400E+07 .3538000E+00
CASE NUMBER 766
GROUP NUMBER 1
.2022859E+01 .4047715E+03 .2000000E+03 .2528822E+03 .1264911E+01 .5314911E+00 .2276840E+02 .3048625E+04
.2828129E+00 .3642944E+02 .4000000E+05 .8095431E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3216338E+00 .7378961E+04 .1800000E+02 .6169883E+04 .7285888E+04 .6097250E+06 .1457178E+07 .1180314E+05
.4553680E+04 .9107380E+06 .1166400E+07 .3595000E+00
CASE NUMBER 767
GROUP NUMBER 1
.2216559E+01 .4433058E+03 .2000000E+03 .2607681E+03 .1303800E+01 .5820880E+00 .2346813E+02 .3048625E+04
.2828129E+00 .3642944E+02 .4000000E+05 .8866113E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3424053E+00 .7603988E+04 .1800000E+02 .6757365E+04 .7878904E+04 .6097250E+06 .1895801E+07 .1292680E+05
.4693828E+04 .9387651E+06 .1166400E+07 .3647000E+00
CASE NUMBER 768
GROUP NUMBER 1
.2414953E+01 .4828907E+03 .2000000E+03 .2683282E+03 .1341641E+01 .6341978E+00 .2414953E+02 .3048625E+04
.2626129E+00 .4348818E+02 .4000000E+05 .9659814E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3523321E+00 .7824449E+04 .1800000E+02 .7162287E+04 .8892822E+04 .6097250E+06 .1728786E+07 .1408401E+05
.4825907E+04 .9659814E+06 .1166400E+07 .3701000E+00

```

NADC-77036-30

FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 769

GROUP NUMBER 1

2618958E-01 5237828E-03 2000000E-03 2756810E-03 1278405E-01 8877750E-00 2481128E-02 3048625E-04
2626128E-00 4714145E-02 4000000E-05 1047588E-04 5832000E-04 4727032E-01 1219450E-08 5252257E-02
3619848E-00 8018857E-04 1800000E-02 7884255E-04 8428288E-04 6087250E-06 1885658E-07 1527383E-05
4962258E-04 8824515E-06 1166400E-07 3757000E-00

CASE NUMBER 770

GROUP NUMBER 1

2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 7427814E-00 2545584E-02 3048625E-04
2626128E-00 5081168E-02 4000000E-05 1131371E-06 5832000E-04 4727032E-01 1219450E-08 5252257E-02
3713907E-00 8247693E-04 1800000E-02 8622814E-04 1018234E-05 6087250E-06 2038468E-07 1649528E-05
5081168E-04 1018234E-07 1166400E-07 3814000E-00

NADC-77036-30

A P P E N D I X B

ANALYSIS OF COVARIANCE COMPUTER PROGRAM LISTING

NADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

This section contains the FORTRAN source listings for program BMD04V and its associated subroutines, presented in the following order:

PROGRAM BMD04V

Subroutines

MINV

GRSPSEL

PATTY2

TG41

TPWD

WRT

LDAY

CONF

NADC-77036-30

```

PROGRAM BMD04V(INPUT,OUTPUT,TAPE4,TAPE5=INPUT,TAPE6=OUTPUT,TAPE1,
CTAPE2,TAPE3,TAPE7,TAPE8,TAPE9)
C
C BMD04V
C THIS IS A SIFTED VERSION OF BMD04V ORIGINALLY WRITTEN IN
C FORTRAN II. SOME MODIFICATIONS WERE MADE TO MAKE IT OPERABLE
C AND SLIGHTLY MORE EFFICIENT THAN THE SIFTED VERSION.
C
C CODE=PROBLEM IDENTIFICATION
C KVF=NO. OF VARIABLE FORMAT CARDS
C LYNN=NO. OF TREATMENT DEFINITION CARDS
C NADD=NO. OF VARIABLES TO BE ADDED AFTER TG
C NCARD=NO. OF CARDS/CASE
C NCASE=NO. OF CASES
C NCOV=NO. OF COVARIATES
C NDV=NO. OF THE DEPENDENT VARIABLE
C NGRPS=NO. OF TREATMENT GROUPS
C NTAPE=LOGICAL TAPE NO. FOR INPUT DATA
C NTG=NO. OF TG CARDS
C REP=REPROCESS SAME DATA MATRIX
C
C REAL KODE,NAMES,KKK
C DOUBLE PRECISION Z,DB,DE,DT
C DIMENSION NAMES(36),KKK(100),TMP(8),INDX(8),WHEN(3)
C DIMENSION NEW(99),JUMP(99),NA(99),BN(99),NSAM(99),FMT(80),
C DATA(100),NSUB(99,6),CONT(99,6),REL(99,6),OPER(99,6),NG(99),X(36),
C ZSSVAR(99,36),TOTX(36,36),TOTY(36),TREX(36,36),TREY(36),
C ZERRX(36,36),ERRRY(36),LLL(36),B(35),C(35),D(35),
C A5B(35),SEC(35),SED(35),ADY(99),SEADY(99),A(99),SS(99),YY(99)
C 5,INDEX(100),INDEX2(36),IX(8),Z(1229),ZY(35),IZ(35)
C 6,ERRC(36,36),TRECC(36,36),TOTCC(36,36),MCG(99),SDMG(99),VMG(99)
C COMMON DATA NSUB,CONT,REL,OPER,NG
C COMMON LH,NEW,JUMP,NA,BN,ERROR
C COMMON NVAR,NTG,NCASE
C COMMON /MT/A,B,C,D,SEB,SEC,SED,SSVAR,ADY,SEADY,VAC,WHEN
C SERI(1)=1-((X/1.414213562)**2)-((X/1.817120593)**3)
C 1-((X/2.213363939)**4)-((X/2.605170851)**5)-((X/2.993795166)**6)
C 2-((X/3.280915111)**7)-((X/3.7843506)**8)-((X/4.147166272)**9)
C 3-((X/4.528728687)**10)-((X/4.98228779)**11)-((X/5.28851694)**12)
C 4-((X/5.567681177)**13)-((X/6.045855167)**14)-((X/6.423424746)**15)
C 5-((X/6.800466801)**16)-((X/7.27027252)**17)-((X/7.553183862)**18)
C 6-((X/7.928946849)**19)-((X/8.304361204)**20)-((X/8.679457224)**21)
C 5 FORMAT('H')
C 3 FORMAT('H1,10SX,3A10')
102 FORMAT(' BMD04V - ANALYSIS OF COVARIANCE - MULTIPLE COVARIATES - R00000300
REVISED OCTOBER 2, 1974
203M HEALTH SCIENCES COMPUTING FACILITY, UCLA ( NADC REVIS)
30M JULY 2, 1976 J.J. FRANZ /J/
WRITE(6,5)
C
C ITAPE=2
C REWIND ITAPE
C IT3=3
C NTAPE=5
C JTAPE=7
C DATA A124/6HFINISH/,A125/6HSAMSIZ/,A126/6HGRPDEF/,A127/6HTRNGEN/00000370
C 1,A421/6HCVSEL,A521/6HLAB,P123/6HPROBLM/ 00000330
C DATA A123/3MYES/
C CALL LDAY(WHEN)
999 READ (5,100),TODE,CODE,NGRPS,NCASE,NCARD,NCOV,NADD,NDV,OUT,INAM,REP00000400
1,LYNN,WRES,TRES,VAR,SSQ,MCON,CORR,FCAST,REW,NTG,MTAPE,KVF
NIT=0 00000420
C
C IF(TODE .NE. A124) GO TO 1 00000430
2 IF(NTAPE .LE. 5) GO TO 4 00000440
C REWIND NTAPE 00000450
4 STOP 00000460
1 REWIND 8
C REWIND 9
C WRITE(6,3) WHEN
C Z000=0
C IF(TODE .NE. P123) GO TO 446 00000480
C IF(NGRPS .LE. 0) GO TO 436 00000490
C IF(NCOV .LT. 2) GO TO 498 00000500
C GO TO 400 00000510
446 WRITE (6,446) Z000,TODE 00000520
4466 FORMAT('NO. 66 60M CARD EXPECTED. THE FIRST SIX COLUMNS OF THE CARD 00000530
READ WERE :A61) 00000540
C GO TO 2 00000550
441 WRITE (6,441) 00000560
4411 FORMAT('40HILLEGAL NUMBER OF TRANSGENERATION CARDS) 00000570
C GO TO 2 00000580
1441 WRITE(6,2441) 00000590
2441 FORMAT('31HOPROBLEM HAS TOO MANY VARIABLES) 00000600
C GO TO 2 00000610
1442 WRITE(6,2442) 00000620
2442 FORMAT('44HILLEGAL NUMBER IN COL. 24-26 ON PROBLEM CARD.) 00000630
C GO TO 2 00000640
448 WRITE(6,448) 00000650
4488 FORMAT('55HVIOLATING EITHER RULE(2) OR RULE(5) ON PAGE 525 OF BMD) 00000660
C GO TO 2 00000670
491 WRITE(6,491) 00000680
4910 FORMAT('41HNUMBER OF GROUP DEFINITION CARDS ILLEGAL) 00000690
C GO TO 2 00000700
496 WRITE(6,496) 00000710
4969 FORMAT('25HILLEGAL NUMBER OF VARIATES READ IN) 00000720
C GO TO 2 00000730
456 WRITE(6,456) 00000740
4569 FORMAT('35HILLEGAL NUMBER OF TREATMENT GROUPS) 00000750
C GO TO 2 00000760
443 WRITE (6,443) 00000770
4443 FORMAT('60HTHE NUMBER OF THE INPUT TAPE CANNOT BE 2 OR 3 00000780
C GO TO 2 00000790
1440 WRITE(6,2440) 11
2440 FORMAT('64HOPROBLEM HAS TOO MANY VARIABLES FOR THE NUMBER OF CASES
IN GROUP.15)
C GO TO 2
401 WRITE (6,403) 00000800
C GO TO 2 00000810
400 WRITE (6,102) 00000820
C BACKSPACE 5
C READ (5,114) (IX(J),J=1,8)
C WRITE (6,98) (IX(J),J=1,8)
98 FORMAT('2,3A10,/)
C WRITE (6,103)CODE,NGRPS,NCASE,NCARD,NCOV,NADD,NDV,OUT, INAM,REP,LY00000830
C WRES,TRES,VAR,COAR,FCAST,REW,NTG,MTAPE,KVF
C IF(NCOV+NADD+NCOV+NADD-100)GE.0)GO TO 1441 00000850
C IF(NADD = 98) (NADD = 28)GE.0)GO TO 1442 00000860
C IF(NTAPE-ITAPE+INTAPE-173)EQ.0)GO TO 443 00000870
C IF(REW.EQ.A123)CALL TPOD(NTAPE,MTAPE)
C NVAR=NCOV 00000890
C K17=0 00000900
C REWIND 173 00000910

```

NADC-77036-30

```

REWIND JTAPE
ERROR=0
00000820
00 332 I=1.99 00000830
332 DATA(I)=0.0 00000840
00 333 I=1.36 00000850
NAMES(I)=0 00000860
INDEX(I)=0 00000870
333 INDEX2(I)=0 00000880
LH=NVAR+1+RAD 00000890
NVAR=LH-1 00000900
C
LA=NVAR 00001010
IF(LH.GE.28.OR.LH.LE.2)GO TO 1441 00001020
IF(KVF.GT.0.AND.KVF.LE.10)GO TO 410 00001030
WRITE (6,9999) 00001040
KVF = 1 00001050
410 ASSIGN 50 TO NSKIP 00001060
IF(NTG) 441,10,11 00001070
11 ASSIGN 48 TO NSKIP 00001080
IF(NTG.GT.99) GO TO 441 00001090
ZQQQ=A221 00001100
00 411 I=1,NTG 00001110
READ (5,106)TODE,NEW(I),JUMP(I),NA(I),BH(I) 00001120
IF(TODE.NE.A321) GO TO 446 00001130
IF(MOD(I,50).NE.1)GO TO 12 00001140
WRITE(6,3) WHEN 00001150
WRITE (6,104) 00001160
WRITE (6,105) 00001170
12 WRITE (6,107)I,NEW(I),JUMP(I),NA(I),BH(I) 00001180
IF((JUMP(I)-19)*JUMP(I)-19)*JUMP(I)-401.EQ. 0) GO TO 4115 00001190
IF(JUMP(I)-4114111,411,4115 00001200
4111 IF((JUMP(I)-25)*(19-JUMP(I)) .LT. 0) GO TO 411 00001210
4115 WRITE (6,150)I 00001220
LYNN=99 00001230
411 CONTINUE 00001240
10 IF(LYNNI491,14,13 00001250
13 WRITE(6,3) WHEN 00001260
WRITE (6,110) 00001270
IJ=0 00001280
DATA STAR/4H 00001290
00 21 I=1,LYNN 00001300
READ (5,111)TODE,NG(I),NSUB(I,J),REL(I,J),CONT(I,J),OPER(I,J),J= 00001310
1,6) 00001320
ZQQQ=A126 00001330
IF(TODE.NE.A126) GO TO 446 00001340
00 16 L=1,6 00001350
IF(OPER(I,LL).NE.STAR)GO TO 16 00001360
IX=LL+1 00001370
IJ=IJ+IX 00001380
GO TO 18 00001390
16 CONTINUE 00001400
18 IF(IJ.LE.50)GO TO 19 00001410
IJ=IX 00001420
WRITE(6,3) WHEN 00001430
WRITE (6,110) 00001440
19 WRITE (6,112)NG(I) 00001450
00 22 J=1,6 00001460
WRITE (6,113)NSUB(I,J),REL(I,J),CONT(I,J),OPER(I,J) 00001470
IF(OPER(I,J) .EQ. STAR) GO TO 21 00001480
22 CONTINUE 00001490
21 CONTINUE 00001500

GO TO 15 00001370
14 NCARDS=(NCRPS+21)/22 00001380
N2=0 00001390
WRITE (6,3) WHEN 00001400
WRITE (6,155) 00001410
00 1450 J=1,NCARDS 00001420
N1=N2+1 00001430
N2=N2+22 00001440
IF(N2.LE.99) GO TO 1430 00001450
N2=99 00001460
1430 READ (5,108)TODE,(NSAM(I),I=1,N2) 00001470
WRITE (6,157)TODE,(NSAM(I),I=1,N2) 00001480
BACKSPACE 5 00001490
READ (5,108)TODE,(NSAM(I),I=1,N2) 00001500
ZQQQ=A125 00001510
IF(TODE.NE.A125) GO TO 446 00001520
1450 CONTINUE 00001530
15 IF(INAM)401,17,501 00001540
501 N1=0 00001550
WRITE(6,3) WHEN 00001560
WRITE(6,125) 00001570
503 READ(5,504)TODE,(INDX(I),TMP(I),I=1,7) 00001580
504 FORMAT(12,31,7(14,48)) 00001590
IF(TODE.NE.A521)GO TO 446 00001600
00 505 I=1,7 00001610
IF(INDX(I).EQ.0)GO TO 505 00001620
N1=N1+1 00001630
INDEX(I)=INDX(I) 00001640
KKK(N1)=TMP(I) 00001650
505 CONTINUE 00001660
BACKSPACE 5 00001670
READ(5,506)INDX(I),I=1,7) 00001680
WRITE(6,126)(INDX(I),TMP(I),I=1,7) 00001690
506 FORMAT(12,7(14,48)) 00001700
IF(N1.LT.INAM)GO TO 503 00001710
17 KVF=KVP+8 00001720
WRITE(6,3) WHEN 00001730
WRITE(6,1090) 00001740
READ (5,144)FNT(I),I=1,KVF) 00001750
WRITE(6,2091)FNT(I),I=1,KVF) 00001760
FORMAT(12,8410) 00001770
209 IF( REP .EQ.A123) GO TO 37 00001780
N1=NCARD+NCASE 00001790
K173=1 00001800
IF(NTAPE.NE.5) GO TO 3777 00001810
00 25 I=1,K1 00001820
READ (NTAPE,114) (IX(I),J=1,8) 00001830
15 WRITE (173,114) (IX(I),J=1,8) 00001840
END FILE 173 00001850
ELAST=173 00001860
37 NTAPE=ELAST 00001870
3777 K17P=K173 00001880
IF(K17P.EQ.0) GO TO 38 00001890
REWIND JTAPE 00001900
38 IF(LYNN .GT. 0) GO TO 28 00001910
K17P=1 00001920
K17P=1 00001930
00 27 I=1,NCRPS 00001940
N1=NSAM(I) 00001950
00 27 J=1,NH 00001960

```

NADC-77036-30

```

      READ (NTAPE,FMT)(DATA(K),K=1,NVAR)
      DATA(100)=1
      WRITE(1TAPE)(DATA(K),K=1,NVAR),DATA(100)
27  CONTINUE
      GO TO 28
28  DO 29 I=1,99
29  NSAM(I)=0
      KNT=1
      DO 30 I=1,NCASE
      DATA(100)=0
      READ (NTAPE,FMT)(DATA(J),J=1,NVAR)
      DO 31 J=1,LYNH
      CALL GRPSEL(J)
      IF(I,GT,0) GO TO 299
      READ (5,151)KODE,MCO
      IF(MTP.EQ,0) GO TO 88
      REWIND 1TAPE
88  IF(MCO,GE,33) GO TO 999
      READ (5,151)KODE
      GO TO 999
299  IF(DATA(100).LE,0.) GO TO 31
      KK=NG(J)
      NSAM(KK)=NSAM(KK)+1
      NITP=1
      WRITE(1TAPE)(DATA(K),K=1,NVAR),DATA(100)
      GO TO 30
31  CONTINUE
30  CONTINUE
28  END FILE 1TAPE
      REWIND 1TAPE
      REWIND 2TAPE
      IF(LYNH,LE,0) GO TO 43
      JJ=0
      DO 39 I=1,99
39  NG(I)=0
      DO 40 I=1,99
      JFINSAM(I),LE,0) GO TO 40
      JJ=JJ+1
      NG(JJ)=NSAM(I)
      NSAM(I)=JJ
40  CONTINUE
      J=MAXO(JJ,NGRPS)
      NGRPS=JJ
      J=0
      DO 45 I=1,JX
      NNG=0
      IF(NSAM(I),EQ,0)GO TO 41
      J=J+1
      NNG=NG(I)
41  IF(MOD(I,50).NE,1)GO TO 45
      WRITE(6,3) WHEN
      WRITE (6,115)
45  WRITE (6,116)I,NSAM(I),NNG
      GO TO 252
43  DO 251 I=1,NGRPS
251  NG(I)=NSAM(I)
252  NVAR=NVAR+NADD
      NCDV=NCDV+NADD-1
      DO 46 I=1,NVAR
      TOTRY(I)=0.0
      TREXY(I)=0.0
      ERRXY(I)=0.0
      DO 46 J=1,NVAR
      TOTEX(I,J)=0.0
      TREXX(I,J)=0.0
46  ERRXX(I,J)=0.0
      DO 47 I=1,NGRPS
      DO 47 J=1,NVAR
47  SSVAR(I,J)=0.0
      ASSIGN 480 TO MUD
      READ (5,152)TODE,MCO,(INDEX2(I),I=1,35)
      ZQQQ=A421
      IF(TODE,NE,A421) GO TO 446
      WRITE(6,3) WHEN
      WRITE (6,154)
      WRITE (6,153)TODE,MCO,(INDEX2(I),I=1,35)
      BACKSPACE 5
      READ (5,151)MCO,(INDEX2(I),I=1,35)
      IF(MCO,LE,32) GO TO 38
      READ (5,152)TODE,(INDEX2(I),I=33,35)
      IF(TODE,NE,A421) GO TO 446
      WRITE (6,153)TODE,(INDEX2(I),I=33,35)
      BACKSPACE 5
      READ (5,151)MCO,(INDEX2(I),I=33,35)
38  NNCO=NCO
      DO 44 I=1,NCO
      IF(INDEX2(I),LE,0) NNCO=NNCO-1
44  CONTINUE
      NCO=NNCO
      IF(NCO,GT,35,OR,(NGRPS=NCO+1),GT,NCASE) GO TO 448
      NCDV=NCO
      NVAR=NCO+1
      INDEX2(NVAR)=NDV
      IF(OUT,NE,A123) GO TO 475
      ASSIGN 417 TO MUD
      MESS=0
      LL=0
      IJ=50/(INCARD+1)
      IF(IJ,LE,0)IJ=1
      WRITE(6,3) WHEN
      WRITE (6,415)
      NITP=1
475  DO 48 II=1,NGRPS
      LG=NG(II)
      DO 48 M=1,LG
      READ(1TAPE)(DATA(L),L=1,LR,DATA(100)
      GO TO MUD,(490,417)
417  MESS=MESS+1
      K=DATA(100)
      LL=LL+1
      IF(LL,LE,IJ)GO TO 51
      LL=1
      WRITE(6,3) WHEN
      WRITE (6,415)
51  WRITE (6,418)MESS,K
      DO 52 L=1,NCARD
      READ (1TAPE,118)I(I),KK=1,B)
52  WRITE (6,250)(I(I),KK=1,B)
490  GO TO NSRIP,(49,50)
49  CALL TGA(IJ,M)

```

```

00001830
00001840
00001850
00001860
00001870
00001880
00001890
00001900
00001910
00001920
00001930
00001940
00001950
00001970
00001980
00001990
00002000
00002010
00002020
00002030
00002040
00002050
00002060
00002070
00002090
00002100
00002110
00002120
00002130
00002140
00002150
00002160
00002170
00002180
00002190
00002200
00002210
00002220
00002230
00002240
00002250
00002270
00002290
00002300
00002310
00002320
00002330
00002340
00002350
00002360
00002370
00002380
00002390
00002400
00002410
00002420
00002430
00002440
00002460
00002500
00002510
00002520
00002540
00002550
00002560
00002570
00002580
00002590
00002600
00002610
00002620
00002630
00002640
00002650
00002660
00002670
00002680
00002690
00002700
00002710
00002720
00002730
00002740
00002750
00002770
00002800
00002810

```

NADC-77036-30

```

50 K=DATA(100)
WRITE(JTAPE)(DATA(INDEX2(JJ)),JJ=1,NVAR),DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
DO 48 J=1,NVAR
I=INDEX2(J)
SSVAR(K,J)=SSVAR(K,J)+DATA(I)
DO 48 N=1,NVAR
L=INDEX2(N)
TOTX(J,N)=TOTX(J,N)+(DATA(I)+DATA(L))
48 CONTINUE
REWIND JTAPE
END FILE JTAPE
REWIND JTAPE
NT=0
DO 54 I=1,NGRPS
IL=1
IF((NG(I)-NCOV(I),LE.0)GO TO 1440
NT=NT+NG(I)
54 CONTINUE
DO 55 J=1,NVAR
X(J)=0.0
DO 55 I=1,NGRPS
X(J)=X(J)+SSVAR(I,J)/NT
55 X(J)=X(J)+SSVAR(I,J)/NT
BIG=NT
DO 58 I=1,NVAR
DO 58 J=1,NVAR
TOTX(I,J)=TOTX(I,J)-BIG*X(I)*X(J)
DO 58 N=1,NGRPS
T=NG(N)
TREX(I,J)=TREX(I,J)+(SSVAR(K,I)+SSVAR(K,J))/T
58 CONTINUE
TREX(I,J)=TREX(I,J)-BIG*X(I)*X(J)
58 ERRX(I,J)=TOTX(I,J)-TREX(I,J)
DO 59 I=1,NGRPS
D(I)=NG(I)
DO 59 J=1,NVAR
SSVAR(I,J)=SSVAR(I,J)/D(I)
59 SSVAR(I,J)=SSVAR(I,J)/D(I)
LL=0
IK=NVAR/6
IF((NVAR-IK*6).GT.0)IK=IK+1
J=50/(2+IK*3)
IF(J,LE.0)J=1
WRITE(6,3) WHEN
WRITE(6,117)
DO 62 LT=1,NVAR
LLL=LT+2M-1
I=INDEX2(LT)
DO 615 J=1,IK*6
IF(I.EQ. INDEX1(J)) GO TO 625
615 CONTINUE
NTP=1
WRITE(JTAPE,888)
REWIND JTAPE
READ(JTAPE,777)NAMES(LT)
REWIND JTAPE
GO TO 63
625 NAMES(LT)=KKK(J)
63 CONTINUE
DO 60 I=1,NGRPS
LL=LL+1

IF(ALL.LE.1)GO TO 53
LL=1
WRITE(6,3) WHEN
WRITE(6,117)
53 WRITE(6,118)
60 WRITE(6,119)(LLL(I),NAMES(I),SSVAR(I,J),J=1,NVAR)
WRITE(6,3) WHEN
WRITE(6,70)
DO 64 I=1,NVAR
WRITE(6,71) NAMES(I),X(I)
IF(CAST.EQ.8123) GO TO 99
IF(CORR.NE.8123) GO TO 120
DO 129 I=1,NVAR
DO 129 J=1,NVAR
TOTCC(I,J)=0
*RECC(I,J)=0
ERRCC(I,J)=0
TOT=TOTX(I,I)+TOTX(I,J)
TRE=TREX(I,I)+TREX(I,J)
ERR=ERRX(I,I)+ERRX(I,J)
IF(TOT.LE.0)GO TO 128
TOTCC(I,J)=TOTX(I,J)/SORT(TOT)
128 IF(TRE.LE.0)GO TO 125
TRECC(I,J)=TREX(I,J)/SORT(TRE)
125 IF(ERN.LE.0)GO TO 129
ERRCC(I,J)=ERRX(I,J)/SORT(ERN)
129 CONTINUE
WRITE(6,3) WHEN
WRITE(6,127)
WRITE(6,121)
CALL PATTY2(TOTCC,NVAR,NAMES,I,J)
WRITE(6,3) WHEN
WRITE(6,127)
WRITE(6,123)
CALL PATTY2(ERRCC,NVAR,NAMES,I,J)
130 WRITE(6,3) WHEN
WRITE(6,120)
WRITE(6,121)
CALL PATTY2(TOTX,NVAR,NAMES,I,J)
WRITE(6,3) WHEN
WRITE(6,120)
WRITE(6,122)
CALL PATTY2(TREX,NVAR,NAMES,I,J)
WRITE(6,3) WHEN
WRITE(6,120)
WRITE(6,123)
CALL PATTY2(ERRX,NVAR,NAMES,I,J)
DO 64 I=1,NVAR
TOTV(I)=TOTX(I,NVAR)
TREV(I)=TREX(I,NVAR)
64 ERRV(I)=ERRX(I,NVAR)
TOTV=TOTV/NVAR
TREV=TREV/NVAR
ERRV=ERRV/NVAR
K=0
DO 72 I=1,NCOV
DO 72 J=1,NCOV
K=K+1
72 Z(I)=CBLT(TOTX(I,I))
CALL MINV(Z,NCOV,DT,LY,IZ)

```

```

K=0
DO 73 I=1, NCDV
DO 73 J=1, NCDV
K=K+1
73 TOTXX(J,I)=SHGL(Z(K))
K=0
DO 74 I=1, NCDV
DO 74 J=1, NCDV
K=K+1
74 Z(K)=DBLE(TREXX(J,I))
CALL MINVIZ, NCDV, DB, IV, IZ)
K=0
DO 75 I=1, NCDV
DO 75 J=1, NCDV
K=K+1
75 TREXX(J,I)=SHGL(Z(K))
K=0
DO 76 I=1, NCDV
DO 76 J=1, NCDV
K=K+1
76 Z(K)=DBLE(ERRXX(J,I))
CALL MINVIZ, NCDV, DE, IV, IZ)
K=0
DO 77 I=1, NCDV
DO 77 J=1, NCDV
K=K+1
77 ERRXX(J,I)=SHGL(Z(K))
WRITE(6,3) WHEN
WRITE (6,124)
WRITE (6,121)
CALL PATTY2(TOTXX, NCDV, NAMES, SHGL(DT))
WRITE(6,3) WHEN
WRITE (6,124)
WRITE (6,122)
CALL PATTY2(TREXX, NCDV, NAMES, SHGL(DB))
WRITE(6,3) WHEN
WRITE (6,124)
WRITE (6,123)
CALL PATTY2(ERRXX, NCDV, NAMES, SHGL(DE))
DO 65 I=1, NCDV
B(I)=0.0
C(I)=0.0
D(I)=0.0
DO 65 J=1, NCDV
B(I)=B(I)+ERRXX(I,J)+ERRYY(J)
C(I)=C(I)+TOTXX(I,J)+TOTYY(J)
65 D(I)=D(I)+TREXX(I,J)+TREYY(J)
SSDTRE=0.0
SSDTOT=0.0
SSDERR=0.0
DO 66 I=1, NCDV
SSDERR=SSDERR+B(I)+ERRYY(I)
SSDTRE=SSDTRE+D(I)+TREYY(I)
66 SSDTOT=SSDTOT+C(I)+TOTYY(I)
SSDTRE=SSDTOT-SSDERR
SSATRE=TREYY-SSDTRE
SSATOT=TOTYY-SSDTOT
SSAERR=ERRYY-SSDERR
N1=NGRPS-1
N2=BIG
00003480
00003500
00003520
00003530
00003550
00003560
00003580
00003590
00003600
00003610
00003620
00003630
00003640
00003650
00003660
00003670
00003680
00003690
00003700
00003710
00003720
00003730
00003740
00003750
00003760
00003770
00003780

N2=N2-NGRPS
N3=BIG-1.0
N4=N1
N5=N2-NCDV
N6=N3-NCDV
TEST=SSATOT-SSAERR
DN4=N4
DN5=N5
DN6=N6
DN1=N1
SMAATRE=SSATRE/DN4
SMAERR=SSAERR/DN5
ADJTES=TEST/DN1
FTEST=ADJTES/SMAERR
SMATOT=SSATOT/DN6
CALL WRT(N1, N2, N3, N4, N5, N6, FREYY, ERRYY, TOTYY, SSDERR, SSAERR, SMAERR,
+SSDTOT, SSATOT, TEST, FTEST, ADJTES, NCDV, SMATOT, BIG, NGRPS, NAMES, ERRXX,
+TOTXX, TREXX, SMAATRE, SSDTRE, SSATRE)
99 DO 604 I=1, NGRPS
VMG(I)=0.
SS(I)=0.
604 YY(I)=0.
VM=0.
VT=0.
VL=0.
DO 601 I=1, NY
READ(TAPE)(DATA(J), J=1, NVAR), DATA(100)
K=DATA(100)
IF (LYNN, GT, 0) K=NSAM(K)
ZEST=YAC
YEST=A(K)
DO 600 J=1, NCDV
ZEST=ZEST+CI(J)*DATA(J)
600 YEST=YEST+B(J)*DATA(J)
RES=DATA(NVAR)-YEST
RES1=DATA(NVAR)-ZEST
WRITE(8) RES
VMG(K)=VMG(K)+ABS(RES)
VM=VM+ABS(RES)
VT=VT+ABS(RES1)
PVAR=100.*RES/YEST
IF (ABS(RES1).LE.VLIGO TO 592
VL=ABS(RES)
VVL=RES
VEST=YEST
PAR=PVAR
DAT=DATA(NVAR)
IA=I
IB=K
592 SS(K)=SS(K)+RES*RES)
YY(K)=YY(K)+((DATA(NVAR)-SSVAR(K,NVAR))
+DATA(NVAR)-SSVAR(K,NVAR)))
IF (MRES, NE, A123) GO TO 601
IF (MOD(I,50), NE, 1) GO TO 599
WRITE(6,3) WHEN
WRITE(6,596)
WRITE(6,602)
599 WRITE(6,603) I, DATA(NVAR), YEST, RES, PVAR, K
601 CONTINUE
ENDFILE 8

```

```

REWIND 8
WRITE(6,3) WHEN
WRITE(6,504)
WRITE(6,602)
WRITE(6,603)IA,DAT,VEST,VVL,PAR,IB
DO 508 I=1,NGRPS
508 VMG(I)=VMG(I)/FLOAT(NG(I)-1)
VM=VM/FLOAT(NT-1)
VT=VT/FLOAT(NT-1)
REWIND JTape
VL=0
DO 608 J=1,NT
READ(JTape)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
ZEST=K(K)
YEST=YAC
DO 609 J=1,NCOV
ZEST=ZEST+K(J)*DATA(J)
609 YEST=YEST+K(J)*DATA(J)
RES=DATA(NVAR)-YEST
RES=DATA(NVAR)-ZEST
WRITE(9) RES
PVAR=100.*RES/YEST
IF(ABS(RES).LE.VL)GO TO 583
VL=ABS(RES)
VVL=RES
VEST=YEST
PAR=PVAR
DAT=DATA(NVAR)
IA=I
583 IF(TRES.NE.A123) GO TO 608
IF(MOD(1,50).NE.1)GO TO 610
WRITE(6,3) WHEN
WRITE(6,587)
WRITE(6,611)
610 WRITE(6,612)IA,DAT(NVAR),YEST,RES,PVAR
608 CONTINUE
ENDFILE 9
REWIND 9
WRITE(6,3) WHEN
WRITE(6,595)
WRITE(6,611)
WRITE(6,612)IA,DAT,VEST,VVL,PAR
IF(MCOR.NE.A123)GO TO 634
WRITE(6,3) WHEN
IF((SSDERR/ERRVY).LT.0.)GO TO 632
SE=SQRT(SSDERR/ERRVY)
IF(SE.GT.1)GO TO 632
WRITE(6,627)SE
632 IF((SSDTOT/TOTVY).LT.0.)GO TO 633
ST=SQRT(SSDTOT/TOTVY)
IF(ST.GT.1)GO TO 633
WRITE(6,628)ST
633 WRITE(6,629)
DO 631 I=1,NGRPS
IF((SS(I)/VY(I)).GT.1)GO TO 631
SEW=SQRT(1.-SS(I)/VY(I))
IF(SEW.GT.1)GO TO 631
IF(MOD(1,50).NE.1)OR.(1.EQ.1)GO TO 626
WRITE(6,3) WHEN
WRITE(6,629)
626 WRITE(6,630)I,SEW
631 CONTINUE
634 LW=0
552 REWIND JTape
REWIND 8
REWIND 9
DO 551 I=1,NGRPS
NCG(I)=NG(I)
551 SDWG(I)=0.
SDW=0.
SDT=0.
NC=NT
NO=NT
DO 557 J=1,NT
READ(JTape)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
READ(8) RES
READ(9) RES1
IF(VMG(K).LE.0.)GO TO 540
GS=.5*(RES/VMG(K))+RES/VMG(K)
IF(GS.GT.12.5)GO TO 540
SG=SER(GS)/VMG(K)
SYG=EXP(GS)
GO TO 549
540 NCG(K)=NCG(K)-1
GO TO 550
549 SDWG(K)=SDWG(K)+(SYG/SD)
550 IF(VM.LE.0.)GO TO 541
SX=.5*(RES/VM)+(RES/VM)
IF(SX.GT.12.5)GO TO 541
SX=SER(SX)/VM
SY=EXP(SX)
GO TO 554
541 NC=NC-1
GO TO 555
554 SDW=SDW+(SY/SX)
555 IF(VT.LE.0.)GO TO 542
SXA=.5*(RES1/VT)+(RES1/VT)
IF(SXA.GT.12.5)GO TO 542
SA=SER(SXA)/VT
SYA=EXP(SXA)
GO TO 556
542 NO=NO-1
GO TO 557
556 SDT=SDT+(SYA/SA)
557 CONTINUE
DO 543 I=1,NGRPS
IF((NCG(I).LE.0.)OR.(SDWG(I).LE.0.))GO TO 543
VMG(I)=.5*(VMG(I)+SDWG(I)/FLOAT(NCG(I)))
543 CONTINUE
IF((NC.LE.0.)OR.(SDW.LE.0.))GO TO 544
VM=.5*(VM+(SDW/FLOAT(NC)))
544 IF((NO.LE.0.)OR.(SDT.LE.0.))GO TO 545
VT=.5*(VT+(SDT/FLOAT(NO)))
545 LW=LW+1
IF(LW.LT.20)GO TO 552
WRITE(6,3) WHEN

```



```

WRITE(6,301) VT
WRITE(6,300) VW
WRITE(6,302)
DO 613 1=1,NGRPS
IF((MOD(I,50).NE.1).OR.(I.EQ.1).GO TO 613
WRITE(6,31) WHEN
WRITE(6,302)
613 WRITE(6,303) 1,VWG(I)
IF((FCAST.EQ.A123).OR.(SSO.NE.A123).GO TO 618
DO 606 1=1,NGRPS
IF(MOD(I,50).NE.1).GO TO 614
WRITE(6,31) WHEN
WRITE(6,605)
614 KA=VY(I)-SS(I)
IF(KA.LT.0).GO TO 604
IF((NG(I)-NCOV-1).GT.0).GO TO 617
WRITE(6,607) I,VY(I),KA,SS(I)
GO TO 606
617 KA=SQRT(SS(I)/FLOAT(NG(I)-NCOV-1))
WRITE(6,607) I,VY(I),KA,SS(I),KA
606 CONTINUE
618 NLAST=NIAPE
REWIND JTAPE
IF(VAR.NE.A123).GO TO 621
WRITE(6,31) WHEN
WRITE(6,419)
MESS=0
LL=0
IK=HVAR/8
IF((HVAR-1K*8).GT.0).IK=IK+1
IJ=50/(IK+2)
IF(IJ.LE.0)IJ=1
DO 620 1=1,NT
MESS=MESS+1
READ(JTAPE)(DATA(IJ),J=1,HVAR,DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
LL=LL+1
IF(LL.LE.IJ).GO TO 614
LL=1
WRITE(6,31) WHEN
WRITE(6,419)
616 WRITE(6,418) MESS,K
620 WRITE(6,249)(DATA(IJ),J=1,HVAR)
621 WRITE(6,51)
GO TO 999
70 FORMAT(23H TABLE OF MEANS (TOTAL)//21H VARIABLE MEAN/)
71 FORMAT(3X,A4,3X,E13,7)
125 FORMAT(13H LABELS CARDS//)
126 FORMAT(15X,A4,A6)
127 FORMAT(19H-CORRELATION MATRIX)
594 FORMAT(///,25H MAXIMUM RESIDUAL (WITHIN))
595 FORMAT(///,25H MAXIMUM RESIDUAL (TOTAL))
596 FORMAT(///,25H TABLE OF RESIDUALS (WITHIN))
597 FORMAT(///,27H TABLE OF RESIDUALS (TOTAL))
602 FORMAT(//9H CASE NO.,6X,7HY VALUE,5X,10HY ESTIMATE,5X,8HRESIDUAL
1,3X,17HPERCENT VARIATION,2X,10HGROUP NO.,/)
611 FORMAT(//9H CASE NO.,6X,7HY VALUE,5X,10HY ESTIMATE,5X,8HRESIDUAL
1,3X,17HPERCENT VARIATION,/)
603 FORMAT(2X,15,4X,E13,7,1X,E13,7,1X,E13,7,5X,F9,2,9X,13)

612 FORMAT(2X,15,4X,E13,7,1X,E13,7,1X,E13,7,5X,F9,2)
605 FORMAT(//50H TABLE OF SUM-SQUARES AND STANDARD ERRORS (WITHIN)//61
1H TREATMENT VY SUM-SQUARES SUM-SQUARES STANDARD/59H
2 NO. (DUE) (ABOUT) ERROR,/)
607 FORMAT(1X,15,3X,E13,7,1X,E13,7,1X,E13,7,1X,E13,7)
627 FORMAT(///,35H CORRELATION COEFFICIENT (TOTAL) * .E16,10)
624 FORMAT(///,35H CORRELATION COEFFICIENT (WITHIN) * .E16,10)
629 FORMAT(///,25H TREATMENT CORRELATION,/,25H NO. COEFFICIE
INT,/,16X,6H(WITHIN),/)
630 FORMAT(1X,15,6X,E16,10)
403 FORMAT(48HNEGATIVE NUMBER IS ILLEGAL FOR NUMBER OF LABELS)
1090 FORMAT(25HOTHER VARIABLE FORMAT CARDS/)
100 FORMAT(26,12,15,212,13,12,43,13,43,12,443,3X,443,312)
103 FORMAT(33H PROBLEM CODE.....A6/
1 33H NUMBER OF TREATMENT GROUPS.....13/
2 33H TOTAL NUMBER OF CASES.....16/
3 33H NUMBER OF CARDS PER CASE.....16/
4 33H NUMBER OF ENTERING VARIABLES.....16/
5 33H NUMBER OF VARIABLES ADDED.....16/
6 33H INDEX OF THE DEPENDENT VARIABLE.....16/
7 33H PRINT DATA INPUT.....3X,A3/
8 33H NUMBER OF VARIABLES NAMED.....16/
9 33H USE DATA CARDS OF LAST PROBLEM.....3X,A3/
10 33H NUMBER OF GROUP DEFINITION CARDS.....16/
11 33H PRINT RESIDUALS (WITHIN).....3X,A3/
12 33H PRINT RESIDUALS (TOTAL).....3X,A3/
13 33H PRINT TRANSGENERATED VARIABLES.....3X,A3/
14 33H PRINT CORRELATION MATRICES.....3X,A3/
15 33H FORECAST DATA INPUT.....3X,A3/
16 33H REWIND INPUT TAPE.....3X,A3/
17 33H NUMBER OF TRANSGENERATION CARDS.....16/
18 33H SPECIFIED BCD TAPE NUMBER.....16/
19 33H NUMBER OF VARIABLE FORMAT CARDS.....16/
104 FORMAT(//23H TRANS-GENERATION CARDS//)
105 FORMAT(30H CARD NEW TRANS OLD CONST,/,33H NO. VAR. CODE VARIA00004840
1) OR VAR(9)/)
106 FORMAT(A6,12,12,13,F8,0)
107 FORMAT(14,15,16,15,4X,F10,5)
108 FORMAT(A6,2213)
109 FORMAT(A6,22A3)
110 FORMAT(23HOGROUP DEFINITION CARDS)
111 FORMAT(A6,12,6(12,A2,F5,0,A1))
112 FORMAT(//20H0A CASE IS IN GROUP 12,4H IF,/)
113 FORMAT(15H VAR(12,5H) IS 42,1H F10,5,1H A1)
114 FORMAT(18A10)
115 FORMAT(//26H GROUP NO. SAMPLE/25H SPECIFIED ASSIGNED* SIZE00004850
1//)
116 FORMAT(15A,12,7X,12,4X,15)
117 FORMAT(//30H VARIABLE MEANS FOR EACH GROUP//)
118 FORMAT(//11H GROUP NO. 12/)
119 FORMAT(61A2,A6,E13,7,10/)/)
120 FORMAT(14H-SUMS OF SQUARES AND CROSS PRODUCT MATRIX)
121 FORMAT(11H FOR TOTAL,/)
122 FORMAT(15H FOR TREATMENT,/)
123 FORMAT(11H FOR ERROR,/)
124 FORMAT(24H-INVERSE OF THE COVARIATES/21H CROSS PRODUCT MATRIX)
150 FORMAT(10H09120HTRANSGENERATION CARD13,35H HAS INVALID CODE FOR TH00005290
115 PROGRAM:
151 FORMAT(1A,1612)
152 FORMAT(1A,16A2)

```

NADC-77036-30

```

153 FORMAT(//.1H .A6.36A2)
154 FORMAT(//20H COVARIATE SELECTION CARDS)
155 FORMAT(//10H SAMPLE SIZE CARDS//)
157 FORMAT(//.1H .A6.22A3)
249 FORMAT(//.1H .B13.7)
250 FORMAT(//.1H .B10)
300 FORMAT(//.31H STANDARD DEVIATION (WITHIN) * .E16.10)
301 FORMAT(//.31H STANDARD DEVIATION (TOTAL) * .E16.10)
302 FORMAT(//.10H TREATMENT .6X.8HSTANDARD .7X.3HNO .9X.8HDEVIATION .
1.16X.8H(WITHIN).//)
303 FORMAT(//.1X.15.5X.E16.10)
415 FORMAT(//11H DATA INPUT)
416 FORMAT(//15H TRANSGENERATED/11H DATA INPUT)
418 FORMAT(//30H CASE NUMBER IS.45X.13H GROUP NUMBER IS)
777 FORMAT(A6)
888 FORMAT(3H X1.12.1H)
9999 FORMAT(10H.23X.71HNUMBER OF VARIABLE FORMAT CARDS INCORRECTLY SPEC
IFIED. ASSUMED TO BE 1.)
END
00005470
00005480
000005490
00005500
00005520

```

```

C ..... MINV 10
C ..... MINV 20
C ..... MINV 30
C ..... MINV 40
C ..... MINV 50
C ..... MINV 60
C ..... MINV 70
C ..... MINV 80
C ..... MINV 90
C ..... MINV 100
C ..... MINV 110
C ..... MINV 120
C ..... MINV 130
C ..... MINV 140
C ..... MINV 150
C ..... MINV 160
C ..... MINV 170
C ..... MINV 180
C ..... MINV 190
C ..... MINV 200
C ..... MINV 210
C ..... MINV 220
C ..... MINV 230
C ..... MINV 240
C ..... MINV 250
C ..... MINV 260
C ..... MINV 270
C ..... MINV 280
C ..... MINV 290
C ..... MINV 300
C ..... MINV 310
C ..... MINV 320
C ..... MINV 330
C ..... MINV 340
C ..... MINV 350
C ..... MINV 360
C ..... MINV 370
C ..... MINV 380
C ..... MINV 390
C ..... MINV 400
C ..... MINV 410
C ..... MINV 420
C ..... MINV 430
C ..... MINV 440
C ..... MINV 450
C ..... MINV 460
C ..... MINV 470
C ..... MINV 480
C ..... MINV 490
C ..... MINV 500
C ..... MINV 510
C ..... MINV 520
C ..... MINV 530
C ..... MINV 540
C ..... MINV 550
C ..... MINV 560
C ..... MINV 570
C ..... MINV 580
C ..... MINV 590
C ..... MINV 600

```

SUBROUTINE MINV

PURPOSE
INVERT A MATRIX

USAGE
CALL MINV(A,N,D,L,M)

DESCRIPTION OF PARAMETERS
A - INPUT MATRIX, DESTROYED IN COMPUTATION AND REPLACED BY
RESULTANT INVERSE.
N - ORDER OF MATRIX A
D - RESULTANT DETERMINANT
L - WORK VECTOR OF LENGTH N
M - WORK VECTOR OF LENGTH N

REMARKS
MATRIX A MUST BE A GENERAL MATRIX

SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
NONE

METHOD
THE STANDARD GAUSS-JORDAN METHOD IS USED. THE DETERMINANT
IS ALSO CALCULATED. A DETERMINANT OF ZERO INDICATES THAT
THE MATRIX IS SINGULAR.

SUBROUTINE MINV(A,N,D,L,M)
DIMENSION A(1),L(1),M(1)

IF A DOUBLE PRECISION VERSION OF THIS ROUTINE IS DESIRED, THE
C IN COLUMN 1 SHOULD BE REMOVED FROM THE DOUBLE PRECISION
STATEMENT WHICH FOLLOWS.

DOUBLE PRECISION A,D,BIGA,HOLD

THE C MUST ALSO BE REMOVED FROM DOUBLE PRECISION STATEMENTS
APPEARING IN OTHER ROUTINES USED IN CONJUNCTION WITH THIS
ROUTINE.

THE DOUBLE PRECISION VERSION OF THIS SUBROUTINE MUST ALSO
CONTAIN DOUBLE PRECISION FORTRAN FUNCTIONS. ABS IN STATEMENT
10 MUST BE CHANGED TO DABS.

SEARCH FOR LARGEST ELEMENT

D=1.0
N=N
DO 90 K=1,N
N=N+N
L=K

```

      NIK)=K
      KK=KK+K
      BIGA=A(KK)
      DO 20 J=K,N
      IZ=K+(J-1)
      DO 20 I=K,N
      IJ=IZ+I
10  IF(DABS(BIGA)-DABS(A(IJ))) 15,20,20
15  BIGA=A(IJ)
      L(I)=I
      NIK=N
20  CONTINUE
C
C      INTERCHANGE ROWS
C
      J=L(K)
      IF(J-K) 35,35,25
25  KI=K-N
      DO 30 I=1,N
      KI=KI+K
      HOLD=A(KI)
      JI=KI-K+J
      A(KI)=A(JI)
30  A(JI)=HOLD
C
C      INTERCHANGE COLUMNS
C
35  I=M(K)
      IF(I-K) 45,45,38
38  JP=M(I-1)
      DO 40 J=1,N
      JK=KK+J
      JI=JP+J
      HOLD=A(JK)
      A(JK)=A(JI)
40  A(JI)=HOLD
C
C      DIVIDE COLUMN BY MINUS PIVOT (VALUE OF PIVOT ELEMENT IS
      CONTAINED IN BIGA)
C
45  IF(BIGA) 48,46,48
46  D=0.0
      RETURN
48  DO 55 I=1,N
      IF(I-K) 50,55,50
50  IK=NR-I
      A(IK)=A(IK)/(1-BIGA)
55  CONTINUE
C
C      REDUCE MATRIX
C
      DO 65 I=1,N
      IK=NR-I
      HOLD=A(IK)
      IJ=I-N
      DO 65 J=1,N
      IJ=IJ+K
      IF(I-K) 60,65,60
60  IF(IJ-K) 62,65,62
62  KJ=IJ-I+K
      A(IJ)=HOLD+A(KJ)+A(IJ)
65  CONTINUE
C
C      DIVIDE ROW BY PIVOT
C
      KJ=K-N
      DO 75 J=1,N
      KJ=KJ+K
      IF(IJ-K) 70,75,70
70  A(KJ)=A(KJ)/BIGA
75  CONTINUE
C
C      PRODUCT OF PIVOTS
C
      D=D*BIGA
C
C      REPLACE PIVOT BY RECIPROCAL
C
      A(NR)=1.0/BIGA
80  CONTINUE
C
C      FINAL ROW AND COLUMN INTERCHANGE
C
      K=N
100 K=(K-1)
      IF(K) 150,150,105
105 I=L(K)
      IF(I-K) 120,120,108
108 JQ=NR-I-1
      JR=NR(I-1)
      DO 110 J=1,N
      JK=JQ+J
      HOLD=A(JK)
      JI=JR+J
      A(JK)=A(JI)
110 A(JI)=HOLD
120 J=M(K)
      IF(J-K) 100,100,125
125 KI=K-N
      DO 130 I=1,N
      KI=KI+K
      HOLD=A(KI)
      JI=KI-K+J
      A(KI)=A(JI)
130 A(JI)=HOLD
      DO 140 TO 100
140 RETURN
      END

```

```

MINV 610
MINV 620
MINV 630
MINV 640
MINV 650
MINV 660
MINV 670
MINV 680
MINV 690
MINV 700
MINV 710
MINV 720
MINV 730
MINV 740
MINV 750
MINV 760
MINV 770
MINV 780
MINV 790
MINV 800
MINV 810
MINV 820
MINV 830
MINV 840
MINV 850
MINV 860
MINV 870
MINV 880
MINV 890
MINV 900
MINV 910
MINV 920
MINV 930
MINV 940
MINV 950
MINV 960
MINV 970
MINV 980
MINV 990
MINV1000
MINV1010
MINV1020
MINV1030
MINV1040
MINV1050
MINV1060
MINV1070
MINV1080
MINV1090
MINV1100
MINV1110
MINV1120
MINV1130
MINV1140
MINV1150
MINV1160
MINV1170
MINV1180
MINV1190
MINV1200
MINV1210
MINV1220
MINV1230
MINV1240
MINV1250
MINV1260
MINV1270
MINV1280
MINV1290
MINV1300
MINV1310
MINV1320
MINV1330
MINV1340
MINV1350
MINV1360
MINV1370
MINV1380
MINV1390
MINV1400
MINV1410
MINV1420
MINV1430
MINV1440
MINV1450
MINV1460
MINV1470
MINV1480
MINV1490
MINV1500
MINV1510
MINV1520
MINV1530
MINV1540
MINV1550
MINV1560
MINV1570
MINV1580
MINV1590
MINV1600
MINV1610
MINV1620
MINV1630
MINV1640
MINV1650
MINV1660
MINV1670
MINV1680

```

NADC-77036-30

```

C      SUBROUTINE GRPSEL FOR BMD04V      APRIL 1, 1966      00005900
SUBROUTINE GRPSEL(M)
DIMENSION DATA(100), NSUB(99,6), CONT(99,6), REL(99,6), OPER(99,6), B(16)
1 NG(99), E(7)
COMMON DATA, NSUB, CONT, REL, OPER, NG
DATA A,0,STAR,E/4HA, .4MO, .4M, .4MGT, .4MLT, .4MLE, .4MGE
1 2HEQ,2HME,2H /
FB=1.0
ASSIGN 105 TO ISKIP
500 DD 90 1+1.6
15=NSUB(M,1)
IF(REL(M,1) .EQ. E(1)) GO TO 2
IF(REL(M,1) .EQ. E(2)) GO TO 4
IF(REL(M,1) .EQ. E(3)) GO TO 6
IF(REL(M,1) .EQ. E(4)) GO TO 8
IF(REL(M,1) .EQ. E(5)) GO TO 10
IF(REL(M,1) .EQ. E(6)) GO TO 11
IF(REL(M,1) .EQ. E(7)) GO TO 100
96 WRITE (6,4000)REL(M,1)
M=M+6
GO TO 104
2 IF(DATA(15)-CONT(M,1))50,50,20
4 IF(DATA(15)-CONT(M,1))20,50,50
6 IF(DATA(15)-CONT(M,1))20,20,50
8 IF(DATA(15)-CONT(M,1))50,20,20
10 IF(DATA(15)-CONT(M,1))50,20,50
11 IF(DATA(15)-CONT(M,1))20,50,20
20 B(1)=1.0
GO TO 90
50 B(1)=0.0
90 CONTINUE
100 GO TO ISKIP,(105,125)
125 IF(OPER(M,1,6) .NE. 6) GO TO 150
FB=FB+B(1)
GO TO 175
105 IF(OPER(M,1) .EQ. A) GO TO 147
IF(OPER(M,1) .NE. 0) GO TO 170
147 FB=B(1)
GO TO 175
150 IF(OPER(M,1,6) .EQ. 0) GO TO 152
I = 6
REL(M,6)=OPER(M,1,6)
GO TO 94
170 FB=B(1)
GO TO 350
152 IF(FB .LE. 0.) GO TO 147
175 DD 300 1+1.5
IF(OPER(M,1) .NE. A) GO TO 222
FB = FB+B(1)+1
GO TO 300
222 IF(OPER(M,1) .NE. 0) GO TO 333
IF(FB .GT. 0.) GO TO 300
FB=B(1)+1
300 CONTINUE
IF(OPER(M,6) .EQ. STAR) GO TO 350
M=M+1
ASSIGN 125 TO ISKIP
GO TO 500
333 IF(OPER(M,1) .EQ. STAR) GO TO 350
REL(M,1)=OPER(M,1)

GO TO 36
350 IF(FB .LE. 0.) GO TO 104
DATA(100) = NG(M)
104 RETURN
4000 FORMAT(1MD14R20MILLEGAL OPERATION ON RELATION A2,5TH. PROGRAM WILL
1 PROCEED TO NEXT JOB, IF ANY, OR TERMINATE.)
END

```

NADC-77036-30

```

C      SUBROUTINE PATTY2 FOR BM004V      APRIL 1, 1966      00006570
SUBROUTINE PATTY2 (A,N,NAMES,D)
DIMENSION NAMES(26),NM(8),A(26,26),WHEN(3)      00006590
REAL NAMES,NM
CALL 1DAY(WHEN)
K=0
IK=50/(N+3)
IF(IK.LE.0)IK=1
IT=1
KK=0
K1=IT
K2=MIN0(8,N)
10 KK=KK+8
IF(NM(LE, KK) GO TO 20
IT=IT+1
GO TO 10
20 DO 70 J=1,IT
LLL=K2-K1+1
LL=0
DO 30 JJ=K1,K2
LL=LL+1
30 NM(LL)=NAMES(JJ)
K=K+1
IF(NM(LE,IK)GO TO 31
K=1
WRITE(6,71) WHEN
31 WRITE(6,50) (NM(I),I=1,LLL)
WRITE(6,60)
DO 40 I=1,N
40 WRITE(6,60)NAMES(I), (A(I,J),J=K1,K2)
K1=K2+1
K2=K1+7
K2=MIN0(K2,N)
50 FORMAT(1H0,13X,A6,710E,A6)
60 FORMAT(1H ,A6,1X,6E14,7)
80 FORMAT(1H )
90 FORMAT(//17H SINGULAR MATRIX.)
70 CONTINUE
71 FORMAT(1H1,105X,3A10,7(//))
IF(D.EQ.0.) WRITE(6,90)
RETURN
END
00006610
00006620
00006630
00006640
00006650
00006660
00006670
00006680
00006690
00006700
00006710
00006720
00006730
00006740
00006750
00006760
00006770
00006780
00006790
00006800
00006820
00006840
00006860
00006880
00006900
00006920
00006940
00006960
00006980
00007000
00007010
00007020
00007030
00007040
00007050
00007060
00007070
00007080
00007090
00007100
00007110
00007120
00007130
00007140
00007150
00007160
00007170
00007180
00007190
00007200
00007210
00007220
00007230
00007240
00007250
00007260
00007270
00007280
00007290
00007300
00007310
00007320
00007330
00007340
00007350
00007360
00007370
00007380
00007390
00007400
00007410
00007420
00007430
00007440

```

```

SUBROUTINE TGA(11,M)
DIMENSIONDATA(100),NSUB(99,6),CONT(99,6),REL(99,6),OPER(99,6),NG(99,6)
11,NEW(99,1),JUMP(99),NA(99),BN(99)
COMMON DATA , NSUB , CONT , REL , OPER , NG
COMMON LM , NEW , JUMP , NA , BN , IERROR
COMMON NVAR , NTG , NCASE
EXTERNAL SIGN
ASHX1 = ATAN(X/SQRT(1.-X**2))
SAMPX=NCASE
PI2=1.57079633
DO 1010 I=1,NTG
JKE=JUMP(I)
NM=NEW(I)
IF(NM.GE.100) GO TO 97
NAA=NA(I)
IF(NAA.GE.100) GO TO 97
97 NM=BN(I)
BN=BN(I)
D1=DATA(NAA)
IF(JKE.LE.17) GO TO 33
JKE=JKE-2
IF(JKE.LE.22) GO TO 33
JKE=23
23 GO TO (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
1,21,22,230)JKE
1 IF( D1 199,11,12
11 D2=0.0
GO TO 1000
12 D2=SQRT(D1)
GO TO 1000
2 IF( D1 199,13,14
13 D2=1.0
GO TO 1000
14 D2 =SQRT( D1 1+SQRT( D1 +1.0)
GO TO 1000
3 IF( D1 .LE. 0.) GO TO 99
D2=ALOG10(D1)
GO TO 1000
4 D2=EXP(D1)
GO TO 1000
5 IF( D1 199,11,17
17 IF( D1 -1.0)18,19,99
19 D2=PI2
GO TO 1000
16 A=SQRT(D1)
D2=ASN(A)
GO TO 1000
6 A= D1
B=1.0/(SAMPX+1.0)
IF(A)99,27,24
27 D2 =ASN(SQRT(B))
GO TO 1000
24 IF(B)99,28,29
28 IF(A-1.0)285,287,99
285 D2 =ASN(SQRT(A)+2.0)
GO TO 1000
287 D2 =3.14159265
GO TO 1000
29 A=SQRT(A)
B=SQRT(B)
00006860
00006870
00006880
00006890
00006900
00006910
00006920
00006930
00006940
00006950
00006960
00006970
00006980
00006990
00007000
00007010
00007020
00007030
00007040
00007050
00007060
00007070
00007080
00007090
00007100
00007110
00007120
00007130
00007140
00007150
00007160
00007170
00007180
00007190
00007200
00007210
00007220
00007230
00007240
00007250
00007260
00007270
00007280
00007290
00007300
00007310
00007320
00007330
00007340
00007350
00007360
00007370
00007380
00007390
00007400
00007410
00007420
00007430
00007440

```

NADC-77036-30

```

IF(A .GT. 1. .OR. B .GT. 1.) GO TO 99
D2 = ASH(A)+ASH(B)
GO TO 1000
7 IF( D1 .EQ. 0.) GO TO 99
D2 = 1.0/D1
GO TO 1000
8 D2=D1*BBN
GO TO 1000
9 D2=D1*BBN
GO TO 1000
10 IF( D1 .199.11.32
32 D2=D1*BBN
GO TO 1000
111 IF(NB .GE. 100) GO TO 97
NSKIP=JNKE-10
GO TO(110,120,130,140,150,160).NSKIP
110 D2 = D1 -DATA(NB)
GO TO 1000
120 D2 = D1 -DATA(NB)
GO TO 1000
130 D2 = D1 -DATA(NB)
GO TO 1000
140 IF(DATA(NB) .EQ. 0.) GO TO 94
D2 = D1 /DATA(NB)
GO TO 1000
150 IF( D1 -BBN)11,13,13
160 IF( D1 -DATA(NB))11,13,13
170 IF( D1 .EQ. 0.) GO TO 99
D2 = ALOG(D1)
GO TO 1000
180 D2 = SIN(D1)
GO TO 1000
190 D2 = COS(D1)
GO TO 1000
20 D2=ATAN(D1)
GO TO 1000
21 IF( D1 .199.11.38
38 IF(NB .GE. 100) GO TO 97
D2=D1**DATA(NB)
GO TO 1000
22 IF(BBN)99,11,40
40 D2=BBN*D1
GO TO 1000
230 IF( D1 .NE. 0.) GO TO 1000
IF(SIGN(10.0, D1) .1743,1000,1000
43 D2=BBN
GO TO 1000
97 WRITE (6,4001)
GO TO 991
98 NAA=NB
99 WRITE (6,4000)NAA,JUMP(1),11,M
991 WRITE (6,4002)
GO TO 1010
1000 DATA(NB)=D2
1010 CONTINUE
RETURN
4000 FORMAT(17H0DATA OF VARIABLE14,30H VIOLATES RESTRICTION FOR CODE13,00008020
130H, THIS WAS FOR TREATMENT GROUP13,7H SAMPLE14) 00008030
4001 FORMAT(20H0TRANSGENERATOR CARD13,44H HAS VARIABLE NUMBERS TOO LARG00008040
1E FOR PROGRAM.) 00008050

4002 FORMAT(32H THE DATA WILL REMAIN UNCHANGED.) 00008060
END 00008070

```

NADC-77036-30

```

C          SUBROUTINE TPWD FOR BMD04V          APRIL 1, 1968          00000000
SUBROUTINE TPWD(NT1,NT2)
IF(NT1.EQ.10,12)
10  NT1=5
12  IF(NT1.EQ. NT2) GO TO 19
    IF(NT2.EQ.5) GO TO 18
    REWIND NT2
19  IF(NT1.EQ. 5) GO TO 24
18  IF(NT1.EQ. 8) GO TO 40
    REWIND NT1
24  NT2=NT1
    RETURN
40  WRITE (6,49)
    STOP
49  FORMAT(25H ERROR ON TAPE ASSIGNMENT)
    END

```

```

SUBROUTINE WRT(N1,N2,N3,N4,N5,N6,TREXX,ERRV,TOTV,SSDERR,SSAERR, 00000230
SSAERR,SSDTOT,SSATOT,TEST,FTEST,ADJTES,NCOV,SMATOT,BIG,NCRPS,NAMES00000240
2,ERRXX,TOTXX,TREXX,SMATRE,SSDTRE,SSATRE)
REAL NAMES
DIMENSION DATA(100),NSUB(99,4),CONT(99,4),REL(99,4),OPER(99,4), 00000260
*NG(99),S(35),SSVAR(99,36),TOTXX(36,36),ERRXX(36,36),S(35),C(35), 00000280
1D(35),SEB(35),SEC(35),ADY(99),SEADY(99),NAMES(36),A(99)
2,TREXX(36,36),SED(35),WHEN(3)
COMMON DATA,NSUB,CONT,REL,OPER,NG 00000300
COMMON LN,NEW(99),JUMP(99),NA(99),BN(99),IERROR 00000302
COMMON NVAR,HTG,NCASE 00000304
COMMON /WT/A,B,C,D,SEB,SEC,SED,SSVAR,ADY,SEADY,YAC,WHEN
PRINT 124,WHEN
PRINT 125
PRINT 126
PRINT 127
PRINT 128
PRINT 129
PRINT 127
PRINT 130
PRINT 127
PRINT 131
PRINT 132,N1,TREXX
PRINT 127
PRINT 130
PRINT 127
PRINT 132,N2,ERRV,SSDERR,SSAERR,N5,SSAERR
PRINT 134
PRINT 130
PRINT 127
PRINT 131
PRINT 136,N3,TOTV,SSDTOT,SSATOT,N6,SMATOT
PRINT 127
PRINT 127
PRINT 130
PRINT 127
PRINT 130,TEST,N1,ADJTES
PRINT 127
PRINT 128
PRINT 139
PRINT 140,N1,N5,FTEST
PRINT 124,WHEN
PRINT 141
PRINT 142
PRINT 143
00000610
124 FORMAT(1H,10X,3A10)
125 FORMAT(35X,20H ANALYSIS OF COVARIANCE TABLE/)
126 FORMAT(1H 93(1H,1))
127 FORMAT(2H *,11X,1H,7X,1H,3(15X,1H),7X,1H,15X,1H*)
128 FORMAT(2H *,11X,1H,7X,1H,15X,22H SUM-SQUARES / SUM-SQUARES 00000660
*,1,7X,1H,15X,1H*)
129 FORMAT(54H * SOURCE / OF / Y Y / (DUE) / 1 00000680
* (ADJUST) / 1 OF 1 MEAN-SQUARE *)
130 FORMAT(2H *,9(1H,1),1H*)
131 FORMAT(14H * TREATMENT /,7X,1H,3(15X,1H),7X,1H,15X,1H*)
132 FORMAT(15H * (BETWEEN) /,19,1H,2H,13,7,1H,2(2H,13X,1H),2H
*,1,5X,2H *,13X,2H *)
133 FORMAT(15H * ERROR /,19,1X,3(2H,13,7,1H),2H,15,3H *,13,7
1,2H *)
00000700
134 FORMAT(14H * (WITHIN) /,7X,1H,3(15X,1H),7X,1H,15X,1H*)

```

NADC-77036-30

```

136 FORMAT(15M * + ERROR I .15,1A,3(2M1 E13,7,1M ),2M1 15,3M I E13,7
X,2M #1
137 FORMAT(14M * (TOTAL) 2,7X,1M1,3(15X,1M1),7X,1M1,15X,1M1)
138 FORMAT(15M * DIFFERENCE FOR TESTING ADJUSTED TREATMENT MEANS... I E
*13,7,3M I .15,3M I .E13,7,2M #1
139 FORMAT(1//5MNOULL HYPOTHESIS: NO DIFFERENCE AMONG TREATMENTS AFTER0000000000
*10X,26MADJUSTING WITH COVARIATES.//) 0000000000
140 FORMAT(10X,2M1(.15,1M,15,2M)*,F9,2//) 0000000000
142 FORMAT(1M 16X,19MTREATMENT (BETWEEN)/) 0000000000
DO 60 I=1,NCOV
SED(I)=SMATRE+TREXX(I,1)
IF(SED(I).GT.0.)GO TO 65
PRINT 144,NAMES(I),D(I)
GO TO 68
65 SED(I)=SORT(SED(I))
T=D(I)/SED(I)
CALL CONFINT,T,P)
PRINT 144,NAMES(I),D(I),SED(I),T,P
68 CONTINUE
PRINT 124,WHEN
PRINT 141
PRINT 145
PRINT 143
DO 60 I=1,NCOV
SED(I)=SMAERR+ERRXX(I,1)
IF(SED(I).GT.0.)GO TO 66
PRINT 144,NAMES(I),B(I)
GO TO 69
66 SED(I)=SORT(SED(I))
T=B(I)/SED(I)
CALL CONFINT,T,P)
PRINT 144,NAMES(I),B(I),SED(I),T,P
69 CONTINUE
PRINT 124,WHEN
PRINT 141
PRINT 146
PRINT 143
DO 70 I=1,NCOV
SEC(I)=SMATOT+TOTXX(I,1)
IF(SEC(I).GT.0.)GO TO 67
PRINT 144,NAMES(I),C(I)
GO TO 70
67 SEC(I)=SORT(SEC(I))
T=C(I)/SEC(I)
CALL CONFINT,T,P)
PRINT 144,NAMES(I),C(I),SEC(I),T,P
70 CONTINUE
DO 82 I=1,NVAR
X(I)=0.0
DO 82 J=1,NGRPS
T1=NG(J)
821 X(I)=X(I)+SSVAR(J,1)*T1/810
DO 72 J=1,NGRPS
SEADY(J)=1.
T1=0.0
T1=NG(J)
T1=1.0/T1
DO 71 I=1,NCOV
71 T=T+B(I)*(SSVAR(J,1)-X(I))
ADY(J)=SSVAR(J,NVAR)-T

DO 73 I=1,NCOV
DO 73 K=1,NCOV
73 T1=T1+(SSVAR(J,1)-X(I))*(ERRXX(I,K)+(SSVAR(J,K)-X(K))
IF(SMAERR+T1.LT.0.) GO TO 72
SEADY(J)=SQRT(SMAERR+T1)
72 CONTINUE
DO 76 I=1,NGRPS
IF(MOD(I,50).NE.1)GO TO 74
PRINT 124,WHEN
PRINT 147
PRINT 149
74 IF(SEADY(I).GE.0.) GO TO 75
PRINT 149,I,SSVAR(I,NVAR),ADY(I)
GO TO 76
75 PRINT 149,I,SSVAR(I,NVAR),ADY(I),SEADY(I)
76 CONTINUE
YAC=X(NVAR)
YAD=X(NVAR)
DO 79 I=1,NCOV
YAC=YAC-C(I)*X(I)
YAD=YAD-D(I)*X(I)
79 PRINT 124,WHEN
PRINT 150
PRINT 154,YAD
PRINT 155,YAC
PRINT 151
LL=0
DO 78 I=1,NGRPS
LL=LL+1
A(I)=SSVAR(I,NVAR)
DO 77 J=1,NCOV
77 A(I)=A(I)-B(J)*SSVAR(I,J)
IF(LL.LE.45)GO TO 78
LL=1
PRINT 124,WHEN
PRINT 150
PRINT 151
78 PRINT 153,I,A(I)
141 FORMAT(1//80M)TABLE OF COEFFICIENTS,STANDARD ERRORS AND COMPUTED T-VALUES0000000000
*VALUES//) 0000000000
143 FORMAT(1M 10X,50MCOEFFICIENT STAND. ERROR T-VALUE CN
IF(DCNCE//)
144 FORMAT(1M .46,1X,E16,10,E16,10,1X,F11,6,X,F9,5)
145 FORMAT(1M 23X,14MERROR (WITHIN)/)
146 FORMAT(1M 10X,23MTREATMENT-ERROR (TOTAL)/)
147 FORMAT(144M TABLE OF ADJUSTED MEANS AND STANDARD ERRORS//) 0000000000
148 FORMAT(149M TREATMENT TREATMENT ADJUSTED SE ADJUSTED/6M N
*0,7X,4MMEAN&0X,4MMEAN//)
149 FORMAT(1M .15,3X,E13,7,1X,E13,7)
150 FORMAT(20M TABLE OF INTERCEPTS//)
151 FORMAT(23M TREATMENT INTERCEPT/23M NO. (WITHIN)/)
154 FORMAT(26M INTERCEPT * .E16,10/23M BETW
IEEN)/)
155 FORMAT(26M INTERCEPT * .E16,10/23M TOT
1A1)/)
153 FORMAT(1M .15,3X,E16,10)
RETURN
END
0000000000
0000000000

```



```

SUBROUTINE LOAY(MDAY)
  DIMENSION MDAY(3), LONG(7), MONTH(12), IOREV(7)
  DATA MONTH / 31, MAR, 31, APR, 30, MAY, 31, JUN, 30, JUL, 31, AUG,
1 31, SEP, 30, OCT, 31, NOV, 30, DEC, 31, JAN, 31, FEB,
  DATA LONG / 10H, SUNDAY, 10H, MONDAY, 10H, TUESDAY,
1 10H, WEDNESDAY, 10H, THURSDAY, 10H, FRIDAY, 10H, SATURDAY,
  DATA IOREV / 10H, SUN, 10H, MON, 10H, TUE,
1 10H, WED, 10H, THU, 10H, FRI, 10H, SAT,
2 FORMAT(3(1X12))
3 FORMAT(A6,12,4H, 19,12)
4 FORMAT(14)
  I = 3
  GO TO 4
  ENTRY SDAY
  I = 1
4 CALL DATE(DAY)
  DECODE(10,1,DAY,IV,IM,IO)
  IA = IM
  IF( IO,LC,3) GO TO 5
  IM = IV
  IV = IO
  IO = IA
5 IM = IM + 10
  IF( IM,GT,12 ) IM = IM - 12
  ENCODE(10,2,MDAY(2),MONTH(IM),IO,IV)
  DECODE(10,3,MDAY(3),NYEAR)
  IF( IM,GE,1) NYEAR = NYEAR - 1
  NC = NYEAR/100
  ND = NYEAR - 100*NC
  IC = 2.59 + FLOAT( IM )
  IC = IC + ND/4
  IC = MOD(IC + IO - NC - ND + ND + NC/4,7)
  IF( IC,LT,0 ) IC = IC + 7
  IF( I - 1 ) 7, 7, 6
6 MDAY(1) = LONG( IC+1 )
  RETURN
7 MDAY(1) = IOREV( IC+1 )
  RETURN
  END

```

```

SUBROUTINE CONF(N,T,P)
  P = 5
  IF( N,LT,1) GO TO 6
  RPI = 3.141592653589793
  TP = ABS(T)/SQRT(FLOAT(N))
  I = N - 2*(N/2)
  IF( I,EQ,1) GO TO 3
  P = P + 1.5*TP/SQRT(1. + (TP*TP))
  IF( N,EQ,2) GO TO 6
  DO 2 I = 4, N, 2
  AK = 1
  DO 1 J = 4, I, 2
  AK = AK*(FLOAT(J-3))/(FLOAT(J-2))
1 CONTINUE
  P = P + (.5*TP/SQRT(1. + (TP*TP)))*(AK*((1. + (TP*TP))**((I-1)/2)))
2 CONTINUE
  GO TO 6
3 P = P - RPI*ATAN(TP)
  IF( N,EQ,1) GO TO 6
  P = P - (RPI*TP/(1. + (TP*TP)))
  IF( N,EQ,3) GO TO 6
  DO 5 I = 5, N, 2
  AK = 1
  DO 4 J = 5, I, 2
  AK = AK*(FLOAT(J-3))/(FLOAT(J-2))
4 CONTINUE
  P = P - (RPI*TP/(1. + (TP*TP)))*(AK*((1. + (TP*TP))**((I-1)/2)))
5 CONTINUE
  P = 100 * P
  RETURN
  END

```

NADC-77036-30

A P P E N D I X C

ANALYSIS OF COVARIANCE COMPUTER PROGRAM USER'S GUIDE

NADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

T A B L E O F C O N T E N T S

	<u>Page</u>
Description	C-4
Order of Cards in Job Deck.	C-6
Deck Set-up	C-7
Forecast Data Job Deck.	C-8
Forecast Deck Set-up.	C-9
Preparation of Program Control Cards.	C-10
Problem Card	C-10
Transgeneration Cards.	C-12
Transgeneration List.	C-13
Card Preparation.	C-15
Group Definition Cards	C-15
Sample Size Cards.	C-16
Labels Cards	C-17
Variable Format Cards.	C-17
F-Type Variable Format.	C-18
Scaling	C-20
nFw.d Specification.	C-20
SPnFw.d Specification.	C-20
Mixed nFw.d & SPnFw.d Specifications	C-21
Data Input Cards	C-21
Covariate Selection Cards.	C-23
Tape Input.	C-23

ANALYSIS OF COVARIANCE WITH MULTIPLE COVARIATES AND
FORECAST CAPABILITY

DESCRIPTION

1. This program is designed to compute Analysis-of-Covariance information for one Analysis-of-Variance Variable with multiple Covariates and unequal treatment groups sizes. Cases may be specified by the user as being in certain treatment groups, or cases may be placed in treatment groups by the program in accordance with a specified boolean expression. The program provides the capability to input forecast case data to test the accuracy of the defined covariance statistical model.
2. Output from this program includes:
 - a. List of case numbers, data input, and group designation (optional).
 - b. Variable means for each treatment group.
 - c. Total mean for each variable.
 - d. Correlation matrices for total, treatment, and error (optional).
 - e. Sums of products matrices for total, treatment, and error.
 - f. The inverses of the Covariate matrices for total, treatment, and error.
 - g. Analysis-of-Covariance table with degrees of freedom, sums of squares, mean squares, and F-ratio.
 - h. Tables of regression coefficients, their standard errors, and computed t-values with and without adjustment for groups.
 - i. Table of adjusted means and their standard errors.
 - j. Table of Intercepts for Total, Treatment, and Error.
 - k. Table of residuals for Total and Error.
 - l. Table of Sum-Squares within.
 - m. Table of Transgenerated Data Input with Case Numbers, and Group Designation (Optional).
3. Limitations per problem:
 - a. v - Number of variables read in. However, no more than 36 variables (including the Analysis-of-Variance variable) may enter the computation, i.e., $v + q \leq 36$. Also see limitations (b) and (f) below. ($3 \leq v \leq 99$.)
 - b. p - Number of Covariates ($1 \leq p \leq 35$).
 - c. t - Number of treatment groups ($2 \leq t \leq 99$).

- d. n_i - Sample size of the i^{th} treatment group ($1 \leq n_i \leq 999$).
- e. N - Total number of cases ($t + p + 1 \leq N \leq 99999$)
- f. q - Number of variables added to the original set after transgeneration ($-96 \leq q \leq 32$).
- g. m - Number of Transgeneration Cards ($0 \leq m \leq 99$).
- h. g - Number of Group Definition Cards ($0 \leq g \leq 99$).
- i. k - Number of Variable Format Cards ($1 \leq k \leq 10$).

The above limitations are built into the program and are checked for each problem. If violations occur, a message to that effect is printed, and the entire job is skipped by the system.

4. One set of data input may be processed an indefinite number of times. The user may select various combinations of variables by specifying different variable formats. For each variable selection of the data input, different transgeneration options may be used since data does not remain transformed from one variable selection to the next.

5. This program allows for the placement of cases into particular treatment groups in accordance with a boolean expression on the Group Definition Card. If the case under consideration satisfies the boolean expression given on the Group Definition Card, it is assigned to the treatment group specified on the cards. If the case does not satisfy the boolean expression, the case is skipped.

The boolean expression contains the following:

Relationships	{	GT (Greater Than)
		GE (Greater than or equal to)
		LT (Less Than)
		LE (Less than or equal to)
		EQ (Equal To)
		NE (Not Equal To)
Operations	{	A (And)
		ϕ (Or)

For example, 6 21GT3.000A05EQ1.000 ϕ 07LE68.50, states that a case is in treatment group 6 if variable 21 is greater than 3.000 and variable 05 equals 1.000 or variable 07 is less than or equal to 68.50.

The boolean expression should be prepared carefully so that there is no possibility of a case satisfying the expression for more than one group.

6. Information from this program includes that usually computed from standard multiple regression analysis. By an arbitrary partitioning of the data input into at least two treatment groups and ignoring the "WITHIN" output, the program may be used to perform multiple regression analysis.

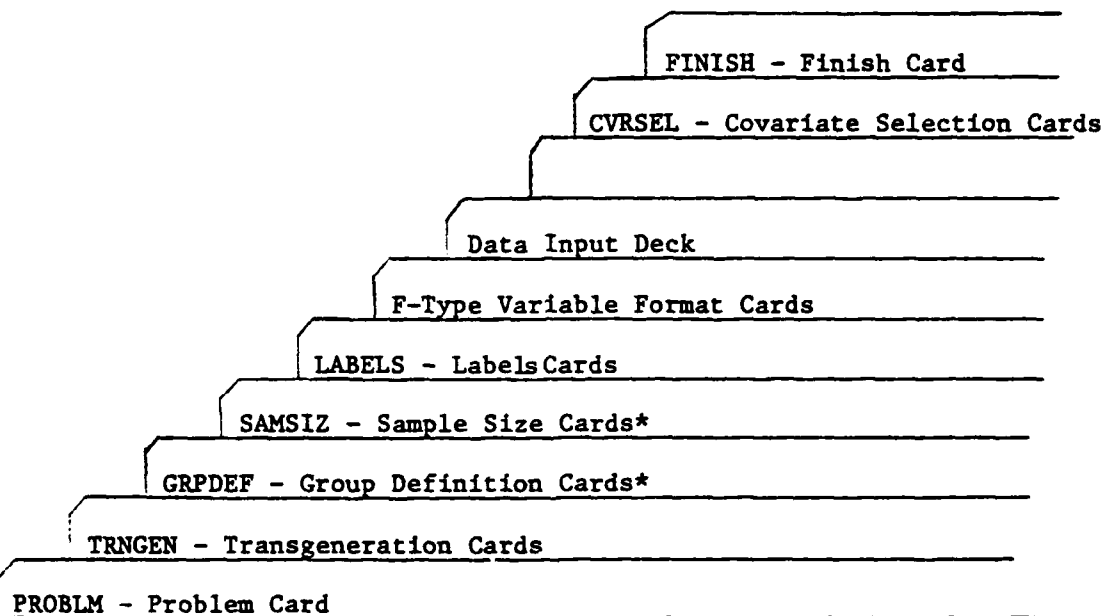
ORDER OF CARDS IN JOB DECK

Cards indicated by numbers enclosed in parentheses are optional. All other cards must be included in the order shown.

1. System Cards
2. Problem Card
- (3.) Standard Transgeneration Cards
- (4.) Group Definition Cards*
- (5.) Sample Size Cards*
- (6.) Labels Cards
7. F-Type Variable Format Cards
8. Data Input Cards (place data input deck here, if data input is from cards).
9. Covariate Selection Cards
 . . . Repeat 2. through 9. as desired.
10. Finish Card

*NOTE: Either (4) or (5) must be used but not both.

DECK SET-UP

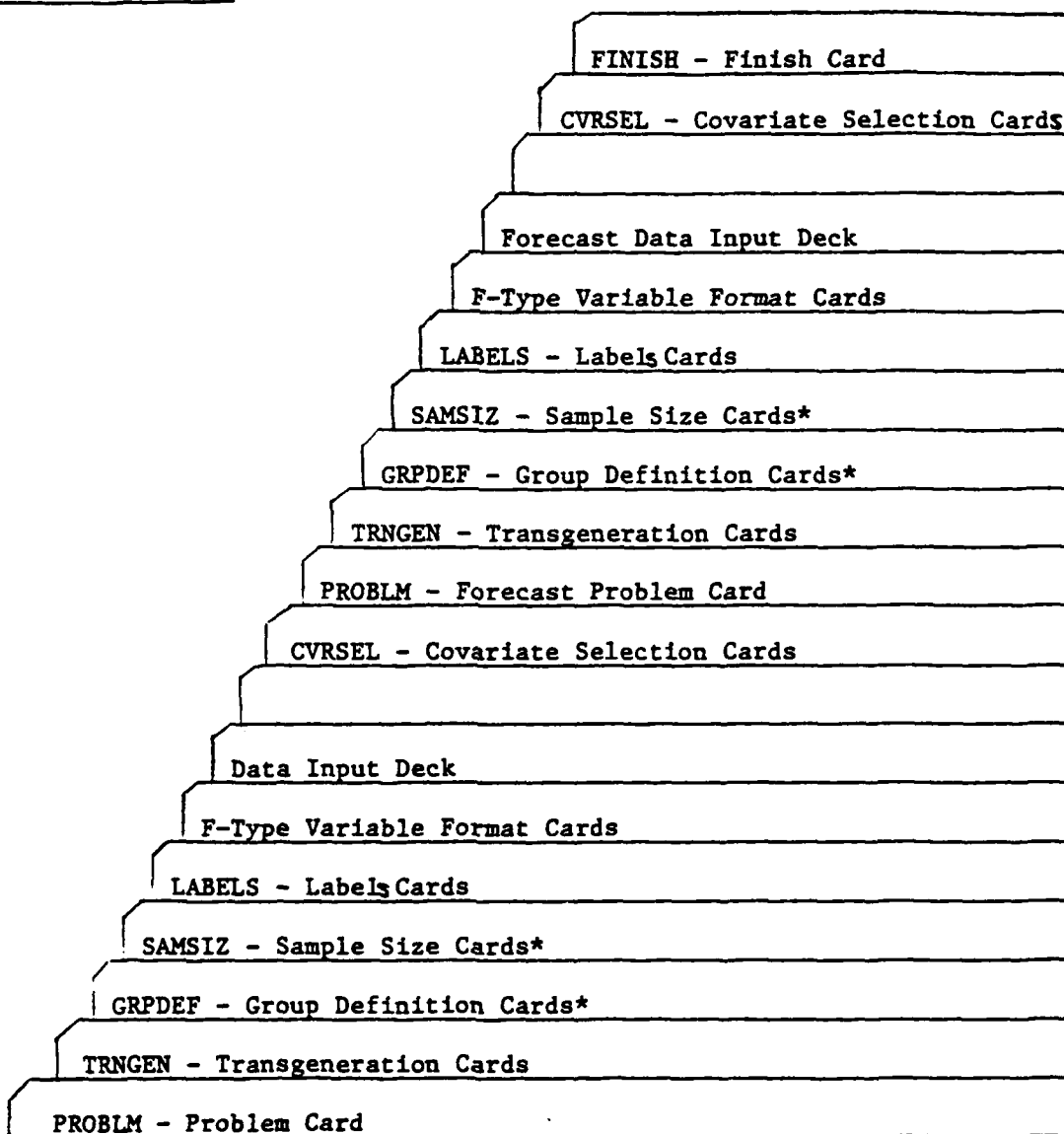


FORECAST DATA JOB DECK

The forecast case data is input in a second problem deck back-to-back with the problem deck that defines the statistical model as described above. The Forecast problem Deck is inserted after the Covariate Selection Cards of the previously defined problem deck. The complete job deck is described as follows:

1. Cards (1) through (9), as shown in the above order of cards in the job deck.
2. Problem Card. (Same as card (2) except for the following; Input the number of forecast cases in Column 15-19, input the characters "Yes" in Columns 61-63.)
3. Repeat cards (3) through (7).
4. Forecast Data Input Cards (Place data input deck here, if data input is from cards.)
5. Repeat card (9).
6. Finish card.

FORECAST DECK SET-UP:



PREPARATION OF PROGRAM CONTROL CARDSPROBLEM CARD (One problem card for each problem.)

Columns 1-6	PROBLM	(Mandatory)
Columns 7-12	Alphanumeric identification. This must be the same as the preceeding problem if and only if the same (untransgenerated) data input from that problem is to be the data input for this problem. (This feature avoids reproducing the same data input for more than one consecutive problem.)	
Columns 13-14	Number of treatment groups ($2 \leq t \leq 99$)	
Columns 15-19	Total number of cases for all treatment groups ($t + p + 1 \leq N \leq 99,999$)	
Columns 20, 21	Number of cards per case	
Columns 22, 23	Number of variables read in ($2 \leq V \leq 99$)	
Columns 24-26	000 - No variables added to the original set after transgeneration. q, q - Variables added to the original set after transgeneration. ($-97 \leq q \leq 34$)	

NOTE: Covariates and the variate (dependent variable) may be generated from the original variables as desired by the transgeneration process. The limit of 99 variables cannot be exceeded at any point during transgeneration. No more than 36 variables may enter the computation.

Columns 27, 28 Index of the variate or dependent variable.

Columns 29-31 YES - If the data input is to be printed; otherwise, leave blank.

Columns 32-34 Number of labels specified on Label Cards; if the labels are not specified, leave blank.

Columns 35-37 YES - If the data cards from the previous problem are to be used. (A different set of variable format cards may be used. If new data cards are to be used, leave these columns blank.)

Columns 38, 39 Number of Group Definition Cards ($0 \leq g \leq 99$)

NOTE: The number of groups defined by these cards must be the t groups specified in columns 13, 14.

Columns 40-42 YES - If residuals (within) are to be printed; otherwise, leave blank.

Columns 43-45 YES - If residuals (total) are to be printed; otherwise, leave blank.

Columns 46-48 YES - If the transgenerated variables entering the computation are to be printed; otherwise, leave blank.

Columns 49-57 Blank

Columns 58-60 YES - If the correlation matrices are to be printed; otherwise, leave blank.

Columns 61-63 YES - If the forecast data input is included; otherwise, leave blank.

Columns 65, 66 NO - If input tape is not to be rewound before reading.

Columns 67, 68 00 - No transgeneration.
 m - m transgeneration cards ($0 \leq m \leq 99$)

Columns 69, 70 00 - If data input if from cards.
 T - If data input is on logical BCD tape T , ($T \neq 1, 2, 3, 5, 6, 7$)

Columns 71, 72 Number of variable format cards ($1 \leq k \leq 10$)

TRANSGENERATION CARDS

The term transgeneration is used to include transformations of input variables and creation of new variables prior to the computations performed by the statistical program.

The transformations described below are performed on the values of the variables in each case. In these examples, the symbol X_i will denote the i^{th} variable as well as its value.

EXAMPLES:

$$\text{Log}_{10} X_4 \rightarrow X_4$$

$\text{Log}_{10} X_4$ replaces X_4

$$X_5^c \rightarrow X_1$$

X_5^c replaces X_1

$$X_2 + X_3 \rightarrow X_2$$

$X_2 + X_3$ replaces X_2

By successive transformations, more complicated relationships may be obtained. For example:

(i) To replace X_5 by $\sqrt{X_1^2 + X_3^2}$ four transformations are required:

Variables as they are stored at each step					
Transformation	X_1	X_2	X_3	X_4	X_5
$X_1^2 \rightarrow X_1$	X_1^2	X_2	X_3	X_4	X_5
$X_3^2 \rightarrow X_3$	X_1^2	X_2	X_3^2	X_4	X_5
$X_1 + X_3 \rightarrow X_5$	X_1^2	X_2	X_3^2	X_4	$X_1^2 + X_3^2$
$X_5 \rightarrow \sqrt{X_5}$	X_1^2	X_2	X_3^2	X_4	$\sqrt{X_1^2 + X_3^2}$

In this example, it can be seen that the original values of X_5 are irrelevant. Actually the variable X_5 may be a dummy variable introduced by the program specifically to provide capacity for creating new variables by transgeneration. Dummy variables may be required for intermediate storage in order to effect some transformations.

(ii) To replace X_1 by $\text{Exp}(-1/2 X_1^2)$ three transformations are required:

<u>TRANSFORMATION</u>	X_1
$X_1^2 \rightarrow X_1$	X_1^2
$-1/2 X_1 \rightarrow X_1$	$-1/2 X_1^2$
$\text{Exp}(X_1) \rightarrow X_1$	$\text{Exp}(-1/2 X_1^2)$

(iii) To replace X_4 by $X_2 + \text{Log}_{10}(X_4 - X_3 + 100)$ four transformations are required:

<u>TRANSFORMATION</u>	X_1	X_2	X_3	X_4
$X_4 - X_3 \rightarrow X_4$	X_1	X_2	X_3	$X_4 - X_3$
$X_4 + 100 \rightarrow X_4$	X_1	X_2	X_3	$(X_4 - X_3 + 100)$
$\text{Log}_{10} X_4 \rightarrow X_4$	X_1	X_2	X_3	$\text{Log}_{10}(X_4 - X_3 + 100)$
$X_2 + X_4 \rightarrow X_4$	X_1	X_2	X_3	$X_2 + \text{Log}_{10}(X_4 - X_3 + 100)$

The transformations are performed in the order in which the transgeneration cards appear, so that, for example, the two transgenerations $2X_1 \rightarrow X_1$ followed by $X_1 - 2 \rightarrow X_1$, will result in $2X_1 - 2$, whereas $X_1 - 2 \rightarrow X_1$ followed by $2X_1 \rightarrow X_1$ will result in $2(X_1 - 2)$.

TRANSGENERATION LIST

Notation to be used in the following transgeneration list:

i, j, k are variable indices (need not be different)

c is a constant

n is a number of cases or sample size

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
01	$\sqrt{X_i} \rightarrow X_k$	$X_i \geq 0$
02	$\sqrt{X_i} + \sqrt{X_i + 1} \rightarrow X_k$	$X_i \geq 0$

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
03	$\text{Log}_{10} X_i \rightarrow X_k$	$X_i > 0$
04	$e^{X_i} \rightarrow X_k$	
05	$\text{ARCSIN} \sqrt{X_i} \rightarrow X_k$	$0 \leq X_i \leq 1$
06	$\text{ARCSIN} \sqrt{X_i/(n+1)} + \text{ARCSIN} \sqrt{(X_i+1)/(n+1)} \rightarrow X_k$	$0 \leq (X_i/n) \leq 1$
07	$1/X_i \rightarrow X_k$	$X_i \neq 0$
08	$X_i + C \rightarrow X_k$	
09	$X_i C \rightarrow X_k$	
10	$X_i^C \rightarrow X_k$	$X_i \geq 0$
11	$X_i + X_j \rightarrow X_k$	
12	$X_i - X_j \rightarrow X_k$	
13	$X_i X_j \rightarrow X_k$	
14	$X_i/X_j \rightarrow X_k$	$X_j \neq 0$
15	If $X_i \geq c$, $1 \rightarrow X_k$; otherwise $0 \rightarrow X_k$	
16	If $X_i \geq X_j$, $1 \rightarrow X_k$; otherwise $0 \rightarrow X_k$	
17	$\text{Log}_e X_i \rightarrow X_k$	$X_i > 0$
20	$\text{Sin } X_i \rightarrow X_k$	
21	$\text{Cos } X_i \rightarrow X_k$	
22	$\text{Arctan } X_i \rightarrow X_k$	
23	$X_i^{X_j} \rightarrow X_k$	$X_i > 0$
24	$C^{X_i} \rightarrow X_k$	$C > 0$

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
41	If X_i is blank, then $C \rightarrow X_k$; otherwise X_k remains unchanged.	$X_i \neq -0^*$

*NOTE: In reading numeric fields, a blank field may be read as -0.

When a violation of a restriction in the right-hand column occurs during transgeneration, the program will print a diagnostic message and continue the computation with the data unchanged where the violation occurred.

CARD PREPARATION

Column 1-6	TRNGEN	(Mandatory)
Column 7-9	Variable index k	
Columns 10, 11	Code from transgeneration list	
Column 12-14	Variable index i	
Column 15-20	Variable index j or constant C	

The Constant C is punched with a decimal point if used with variables which have an F-Type format and without a decimal point if used with variables which have an I-Type format.

The transgeneration cards for the three examples cited above are:

- (i) TRNGEN001100012.0000
TRNGEN003100032.0000
TRNGEN00511001000003
TRNGEN00501005000000
- (ii) TRNGEN001100012.0000
TRNGEN00109001-0.500
TRNGEN00104001000000
- (iii) TRNGEN00412004000003
TRNGEN00408004100.00
TRNGEN00403004000000
TRNGEN00411004000002

GROUP DEFINITION CARDS

If the boolean selection feature is being used to place cases in their treatment groups, Group Definition Cards are prepared to select the cases for the t groups specified in columns 13, 14 of the Problem Card.

Column 1-6	GRPDEF	(Mandatory)
Columns 7, 8	Treatment group number to which case should be assigned if it satisfies the boolean expression.	

Columns 9, 10	Variable index for the first relationship
Columns 11, 12	Relationship
	GT (Greater Than)
	LT (Less Than)
	LE (Less Than or Equal To)
	GE (Greater Than or Equal To)
	EQ (Equal To)
	NE (Not Equal To)
Column 13-17	Constant used in the relationship (punch the decimal point).
Column 18	Operation
	A (AND)
	Ø (OR)
	* (This terminates the boolean expression)
Columns 19, 20	Variable index for the second relationship
Columns 21, 22	Relationship
...	
Column 68	Operation

NOTE: If additional boolean expressions are required for a particular treatment group, continue on a second card and terminate the expression with the asterisk (*) in the appropriate column. As many cards as needed may be used as long as the total does not exceed the limitation of 99. Since parentheses cannot be used for compound AND/OR expressions, AND is assumed to precede OR. The statement W OR X AND Y OR Z will operate as W OR (X AND Y) OR Z.

SAMPLE SIZE CARDS

Sample Size Cards are prepared if cases are specified by the user as being in certain treatment groups. These cards are not prepared if the boolean selection feature is used.

Column 1-6	SAMSIZ	(Mandatory)
Column 7-9	Number of cases in 1st treatment group	
Column 10-12	Number of cases in 2nd treatment group	
...		
Column 70-72	Number of cases in 22nd treatment group. If there are more than 22 treatment groups, continue keypunching a second card, a third card, etc., in the same manner, i.e.,	
Column 1-6	SAMSIZ	(Mandatory)
Column 7-9	Number of cases in the 23rd treatment group	
...		

LABELS CARDS

Labels cards allow the user to substitute alphanumeric names for the usual numeric indices (variable numbers) which appear on the printed output.

CARD PREPARATION

Columns 1-6	LABELS (Mandatory)
Columns 7-10	The number of the variable (or index) to be named. This number must be right-justified.
Columns 11-16	The corresponding alphanumeric name.
Columns 17-20	The number of another variable.
Columns 21-26	The corresponding alphanumeric name.
.	
.	
.	
Columns 67-70	The number of another variable.
Columns 71-76	The corresponding alphanumeric name. (Up to 7 per card.)

There may be from one to seven pairs of variable numbers and labels on each Labels Card. If desired, only one pair may be specified on each card. However, the total number of labels appearing on all the Labels Cards must equal the number of labels specified on the problem card.

It is not necessary to label all the variables. Those labeled may be listed in any order. EXAMPLE: Suppose the number of variables to be labeled as specified on the Problem Card is 8. Then the Labels Cards might be punched as:

```
LABELS  10 HEIGHT 07WEIGHT  06  AGE  11TYPE  17GROUP  03STATUS
LABELS  01GAIN  08SYSTEM
```

VARIABLE FORMAT CARDS (FOR INPUT)

The word "FORMAT" usually refers to the arrangement of information keypunched on a card. The format of a data card is a sequence of fields (variables), each of which occupies one or more columns. For the computer program a format is a set of specifications according to which information is read into the program from punched cards. The specifications tell the program which parts (or columns) of the card to skip, which parts to regard as all one number, and which parts to regard as several numbers in a row. For instance, it is the format which tells the program whether a card punched "345890021" is to be read in as "34.5, 890.0, .021", or "34., 9002.1", or "598.002", or "3, 4, 58, 90, 0, 2, 1", etc. It does this by giving the program a sequence of specifications which indicate the size of a field and

the method of handling that field (i.e., skipping it, entering it into the computer as a whole number, entering it into the computer as a number with two decimal digits, etc.).

The format also tells that program how to read in a certain set of cards when more than one are required to contain all the data for one case. The format describes the variables for each case. Each successive case is assumed to have the same format.

If the format for the program is fixed in advance, all data would have to be punched on cards in the same way for every study. Since this is not usually convenient, the program has been written so that the user may vary the format according to his preference for a particular study. For this reason, they are referred to as "Variable Formats". The program is informed of the format which is to be used by Variable Format Cards. The user must specify on the Problem Card the number of cards used to keypunch the variable format.

In addition to providing an economical method of preparing data input cards (by defining fields to be as small as possible, or "packing" the data), the variable format permits considerable freedom in controlling data input.

For instance:

- It allows the user to select for each case only those cards which have fields of interest. (See examples i, iii, iv below.)
- It allows the user to select only those fields of interest from among the fields of each card. (See examples ii, iii, iv.)
- It allows the user to scale the data input, i.e., shift the decimal point.

F-TYPE VARIABLE FORMAT

The F-Type format is the most frequently used in the program. It is required when the decimal point is keypunched on the card or when the decimal point is to be placed by the program. All data input values must be signed (+) or unsigned numbers with or without a decimal point punched.

SPECIFICATIONS:

1. "nFw.d" - F is the floating point (decimal) indicator; n is the number of fields of width W (includes sign and decimal point if punched); and d is the number of digits to the right of the decimal point if the decimal point is not punched ($0 \leq d \leq w$). If the decimal is punched, d is ignored. If n is not specified, it is assumed to be 1.
2. "sPnFw.d" - P is the scale indicator; s is a scale factor (explained below); and n, w, and d are defined in specification 1.
3. "mX" (Alphabetic X) - X is the skip indicator, and m is the number of columns to be skipped.

4. "/" - (slash) indicates "go to the next data card." Depending on its location in the format statement, the "/" will either direct the program to go immediately to the next card (ignoring any further information on the current card) or skip one card altogether. For example, if a format begins with "/", the program will automatically skip the first card, read the second, skip the third, etc. (See examples i, iii, iv.) "/" indicates "go to the card after next." Two slashes "/" will direct the program to skip two cards. Any number of slashes may be used.

The format is keypunched beginning with a left parenthesis, followed by a sequence of specifications and closed by a right parenthesis. Specifications 1, 2, and 3 are followed by a comma, except preceding a slash or right-hand parenthesis. Blank columns within the format are ignored.

EXAMPLES:

(i) (12F3.0, F4.0, 11F2.0/) punched in the first 21 columns of the variable format card, will describe 12 three-column fields followed by 1 four-column field, followed by 11 two-column fields, followed by an instruction to skip the second card, read the third, skip the fourth, etc.

(ii) (10x, F6.0, 2x, 2F3.0) punched in the first 19 columns, will instruct the program to direct entry of data from each card as follows:

1. Skip 10 columns.
2. Pick up a six-digit field in Column 11-16.
3. Skip 2 columns.
4. Pick up 2 three-digit fields in Columns 19-21 and 22-24.

(iii) (5X, 2F6.0, F1.0, 3X, F5.0/5X, F6.0) punched in the first 31 columns, will instruct the program to direct entry of data from each pair of cards as follows:

1. Skip 5 columns.
2. Pick up 2 six-digit fields in Columns 6-11 and 12-17.
3. Pick up a one-digit field in Column 18.
4. Skip three columns (Columns 19-21).
5. Pick up a five-digit field in Columns 22-26.
6. Go to second data card.
7. Skip 5 columns.
8. Pick up a six-digit field in Columns 6-11 of second card.
9. Repeat for each pair of data cards.

(iv) (5X, 2F6.0, F1.0, 3X, F5.0//5X, F6.0/F4.0, 2X, F1.0) punched in the first 45 columns, will instruct the program to direct entry of data from each set of four cards as follows:

- 1-5. Same as example (iii).
6. Skip second card and go to third card.
7. Skip 5 columns.
8. Pick up a six-digit field in Columns 6-11 of third card.
9. Go to fourth card.
10. Pick up a four-digit field in Column 1-4 of fourth card.
11. Skp two columns.
12. Pick up a one-digit field in Column 7.
13. Repeat for each set of four cards.

SCALING

Scaling may be indicated by using either the "nFw.d" specification or the "sPnFw.d" specification.

"nFw.d" SPECIFICATION

When the decimal point is not punched, the d of the above specification instructs the program to divide the whole picked up by 10^d . For example, F6.1 will specify that the number picked up in a six-column field be divided by 10, F6.2 will specify division by 100, and F6.6 will specify division by 1,000,000.

$$\text{Stored number} = \text{punched number} / 10^d.$$

EXAMPLES:

<u>Punched Number</u>	<u>Format Specification</u>	<u>Stored Number</u>
2468	F4.0	2468.0
3691	F4.1	369.1
4810	F4.3	4.810
4911.32	F7.0	4911.32
172115	F6.6	0.172115

"sPnFw.d" SPECIFICATION

Whether the decimal point is punched or not, the s of the above specification instructs the program to divide the number picked up by

10^s . For example, 2PF6.0 will specify division by 100, -2PF6.0 will specify division by .01. If the decimal point is punched:

$$\text{Stored number} = \text{Punched number} / 10^s$$

If the decimal is not punched:

$$\text{Stored number} = \text{Punched number} / 10^{s+d}$$

EXAMPLES:

<u>Punched Number</u>	<u>Format Specification</u>	<u>Stored Number</u>
7432	1PF4.0	743.2
74.32	-5PF5.0	7432000.0
7432	2PF4.3	0.07432
7432	1P2F2.0	7.4 & 3.2
7432	2P2F2.1	0.074 & 0.032
7432	OPF4.1	743.2
7.432	-3PF5.0	7432.0

MIXED "nFw.d" AND "sPnFw.d" SPECIFICATIONS:

Once the sPnFw.d specification has been used, it will hold for all Fw.d specifications to the right of it until another sPnFw.d is encountered. If the sPnFw.d specification is not necessary to the right of its occurrence within the variable format statement, then OPFw.d should be used for the next specification to the right, which will hold then for the remaining specifications.

EXAMPLES:

(v) (2F3.1, 2x, F4.2, -6PF3.0, F4.0) - The program interprets the last field as -6PF4.0.

(vi) (2F3.1, 2X, F4.2, -6PF3.0, OPF3.0) - The program interprets the last field as F3.0.

(vii) (1PF3.0, F2.0, OPF3.1, F4.2, F4.0) - The program interprets the second field as 1PF2.0.

DATA INPUT CARDS

The form of the data input when Sample Size Cards are prepared is illustrated in the following example:

		<u>VARIABLES</u>				
		<u>CASES</u>	<u>1</u>	<u>2</u>	<u>. . .</u>	<u>v</u>
Treatment Group 1	1		$X_{1,1,1}$	$X_{1,1,2}$	$\cdot \cdot \cdot$	$X_{1,1,v}$
	2		$X_{1,2,1}$	$X_{1,2,2}$	$\cdot \cdot \cdot$	$X_{1,2,v}$
	$\cdot \cdot \cdot$		$\cdot \cdot \cdot$	$\cdot \cdot \cdot$	$\cdot \cdot \cdot$	$\cdot \cdot \cdot$
	n_1		$X_{1, n_1, 1}$	$X_{1, n_1, 2}$	$\cdot \cdot \cdot$	$X_{1, n_1, v}$

		<u>VARIABLES</u>				
		<u>CASES</u>	<u>1</u>	<u>2</u>	<u>. . .</u>	<u>v</u>
Treatment Group 2	1		$X_{2,1,1}$	$X_{2,1,2}$	. . .	$X_{2,1,v}$
	2		$X_{2,2,1}$	$X_{2,2,2}$	. . .	$X_{2,2,v}$

	n_2		$X_{2,n_2,1}$	$X_{2,n_2,2}$	. . .	$X_{2,n_2,v}$

. . .

		<u>VARIABLES</u>				
		<u>CASES</u>	<u>1</u>	<u>2</u>	<u>. . .</u>	<u>v</u>
Treatment Group t	1		$X_{t,1,1}$	$X_{t,1,2}$	. . .	$X_{t,1,v}$
	2		$X_{t,2,1}$	$X_{t,2,2}$	. . .	$X_{t,2,v}$

	n_t		$X_{t,n_t,1}$	$X_{t,n_t,2}$	. . .	$X_{t,n_t,v}$

The preparation of data input on cards is as follows:

1. The cards must be arranged in consecutive treatment groups.
2. Within each treatment group the cards must be arranged in consecutive cases.
3. For each case the variables must be keypunched in fields from left to right across the card (and on to successive cards, if necessary).
4. Each case must begin on a new card.

If the data input is from a prepared BCD tape, the arrangement of data must be in the same form as indicated above. Each case must be a logical record with the last record consisting of the last case of the t^{th} treatment group.

When Group Definition Cards are used, the data is prepared in a similar manner as above considering the data as a single treatment group.

COVARIATE SELECTION CARDS

The indices to be used in specifying the covariates are the indices corresponding to the variables after transgeneration.

Columns 1-6	CVRSEL (Mandatory)
Columns 7, 8	Number of Covariates for this problem ($1 \leq p \leq 35$)
Columns 9, 10	Index of the 1st Covariate
Columns 11, 12	Index of the 2nd Covariate
. . .	
Columns 71, 72	Index of the 32nd Covariate

If there are more than 32 Covariates, they are specified on a second Covariate Selection Card as follows:

Columns 1-6	CVRSEL (Mandatory)
Columns 7, 8	Index of the 33rd Covariate
Columns 9, 10	Index of the 34th Covariate
Columns 11, 12	Index of the 35th Covariate

TAPE INPUT

The program has provision for input of data prepared on tape or disk by means of an alternate input tape. Use of tapes or disks for data provide a very compact storage of data files. One data file may be reread several times to allow several analyses from the same data file by rewinding the alternate input tape.

When the data input consists of p variables on n cases written in consecutive Logical records on magnetic tape in Binary Coded Decimal (BCD) form, a special data input tape may be used. The logical record will usually be the equivalent of one card. When a binary tape is used for data input, it is assumed to be in the standard FORTRAN binary tape format. The user will specify which tape drive is to receive the special data tape.

The program uses several tapes for intermediate storage. Tape numbers 2, 3, 7, 8, and 9, in addition to 5 and 6, may not be specified as alternate input or output tapes for the program.

NADC-77036-30

A P P E N D I X D
COMPUTATIONAL PROCEDURE

MADC-77036-30

(THIS PAGE INTENTIONALLY LEFT BLANK)

TABLE OF CONTENTS

	<u>Page No.</u>
LIST OF SYMBOLS	D-4
DISCUSSION	D-6
GOVERNING EQUATIONS	D-7

LIST OF SYMBOLS

a, b, k, m	covariate designators
A_k	Total regression coefficient of k^{th} covariate
B_k, β_k	Error (Within) regression coefficient of k^{th} covariate
e_{ij}	residual variate error for the j^{th} sample of i^{th} treatment group
E_{about}	Error (Within) sum of squared deviation about regression equation
E_{due}	Error (Within) sum of squared deviation due to regression equation
E_{km}	inverse of $E_{XX_{km}}$ matrix
$E_{XX_{ab}}$	Error (Within) sum of squared deviation for a^{th} and b^{th} covariates
E_{XY_k}	Error (Within) sum of squared deviation for variate and k^{th} covariate
E_{YY}	Error (Within) sum of squared deviation for variates
i	Treatment group designator
j	treatment group sample size designator
n_i	sample size of the i^{th} treatment group
N	total number of cases
S_{about}	Total sum of squared deviation about regression equation
S_{due}	Total sum of squared deviation due to regression equation
S_{km}	inverse of $S_{XX_{km}}$ matrix
$S_{XX_{ab}}$	Total sum of squared deviation for a^{th} and b^{th} covariates
S_{XY_k}	Total sum of squared deviation for variate and k^{th} covariate

S_{YY}	Total sum of squared deviation for variate
$SE(A_k)$	standard error of k^{th} total regression coefficient
$SE(ADJ Y_{i.})$	standard error of adjusted variate mean for the i^{th} treatment group
$SE(B_k)$	standard error of k^{th} error (within) regression coefficient
t_k	computed T-value of k^{th} regression coefficient
$T_{XY_{ab}}$	Treatment (Between) sum of squared deviation for a^{th} and b^{th} covariates
T_{XY_k}	Treatment (Between) sum of squared deviation for variate and k^{th} covariate
T_{YY}	Treatment (Between) sum of squared deviation for variates
X_{ijk}	k^{th} covariate for the j^{th} sample of i^{th} treatment group
$X_{i.k}$	k^{th} covariate mean for the i^{th} treatment group
$X_{..k}$	k^{th} covariate mean, ingoring treatments
Y_{ij}	variate for the j^{th} sample of i^{th} treatment group
$Y_{i.}$	variate mean for the i^{th} treatment group
α_i	differential effect on mean for the i^{th} treatment group
μ	overall mean
$\mu + \alpha_i, ADJ(Y_{i.})$	adjusted covariate mean for the i^{th} treatment group

AD-A115 652

NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA SENSORS A--ETC F/6 12/1
ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATE--ETC(U)
APR 82 J J FRANZ

UNCLASSIFIED

NADC-77036-30

NL

3 15 3
21 2
56



END
DATE
FILMED
7-82
DTIC

DISCUSSION

This section presents the computational procedure for the Analysis-of-Covariance statistical model together with the intermediate residual calculations. The first step in the formulation of the statistical model equations is the calculation of the variate and covariate group means. Next, the cross product deviation matrices for the Total, Treatment, and Error solutions are formed and inverted to solve for the regression coefficients. The final step in the formulation of the model equations is the solution of the adjusted variate group means. The inclusion in this report of the model equations and associated correlation equations is not meant as a full treatise on the subject. A thorough treatment of the governing statistical equations can be found in any standard text (i.e., references (b) and (c)).

GOVERNING EQUATIONSCOMPUTATIONAL PROCEDURE

Statistical Model:

$$Y_{ij} = \mu + \alpha_i + \beta_1 (X_{ij1} - X_{1.1}) + \dots + \beta_p (X_{ijp} - X_{1.p}) + e_{ij}$$

Notation:

$$X_{ijk} \text{ (} k^{\text{th}} \text{ Covariate), } Y_{ij} = X_{ij(p+1)} \text{ (Variate)}$$

$$i = 1, 2, \dots, t \quad \text{(Treatment Groups)}$$

$$j = 1, 2, \dots, n_i \quad \text{(Sample size of the } i^{\text{th}} \text{ treatment group)}$$

$$k = 1, 2, \dots, p \quad \text{(Covariates)}$$

$$m = 1, 2, \dots, p \quad \text{(Covariates)}$$

$$a = 1, 2, \dots, p+1 \quad \text{(Covariates + 1 variate)}$$

$$b = 1, 2, \dots, p+1 \quad \text{(Covariates + 1 variate)}$$

Step 1

$$1. N = \sum_{i=1}^t n_i \quad \text{(Total number of cases)}$$

$$2. \bar{Y}_{i.} = \frac{1}{n_i} \sum_{j=1}^{n_i} Y_{ij} \quad \text{(Variate mean for the } i^{\text{th}} \text{ group)}$$

$$3. \bar{X}_{i.k} = \frac{1}{n_i} \sum_{j=1}^{n_i} X_{ijk} \quad \text{(Covariate means for the } i^{\text{th}} \text{ group and } k^{\text{th}} \text{ covariate)}$$

$$4. \bar{X}_{..k} = \frac{1}{N} \sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijk} \quad \text{(} k^{\text{th}} \text{ Covariate mean, ignoring treatments)}$$

(2) and (3) are printed under the heading variable means for each group.

Step 2. Sums of Squared Deviation

1. Total

$$S_{XX_{ab}} = \sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} X_{ijb} - \frac{\left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} \right) \left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijb} \right)}{N}$$

$$S_{XY_k} = S_{XX_{k(p+1)}}$$

$$S_{YY} = S_{XX_{(p+1)(p+1)}}$$

2. Treatment (Between)

$$T_{XX_{ab}} = \sum_{i=1}^t \frac{\left(\sum_{j=1}^{n_i} X_{ija} \right) \left(\sum_{j=1}^{n_i} X_{ijb} \right)}{n_i} - \left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} \right) \frac{\left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijb} \right)}{N}$$

$$T_{XY_k} = T_{XX_{k(p+1)}}$$

$$T_{YY} = T_{XX_{(p+1)(p+1)}}$$

3. Error (Within)

$$E_{XX_{ab}} = S_{XX_{ab}} - T_{XX_{ab}}$$

$$E_{XY_{k(p+1)}} = S_{XY_{k(p+1)}} - T_{XY_{k(p+1)}}$$

$$E_{YY} = S_{YY} - T_{YY}$$

(1), (2), and (3) are printed under the heading Sums of Squares and Cross Product Matrix for Total, Treatment, and Error.

Step 3. Regression Coefficients

1. Matrices $S_{XX_{km}}$ and $E_{XX_{km}}$ are inverted.

$$\text{Let } S_{km} = (S_{XX_{km}})^{-1}, E_{km} = (E_{XX_{km}})^{-1}$$

$$2. B_k = \sum_{m=1}^P (E_{km})(E_{XY_m}) \quad (\text{Error Coefficients})$$

$$3. A_k = \sum_{m=1}^P (S_{km})(S_{XY_m}) \quad (\text{Total Coefficients})$$

(1) is printed under the heading, Inverse of the Covariates Cross Product Matrix for Total and Error.

Step 4. Regression Sums of Squares

- (1) Error (Within)

$$E_{\text{due}} = \sum_{k=1}^P B_k E_{XY_k}$$

$$E_{\text{about}} = E_{YY} - E_{\text{due}}$$

2. Total

$$S_{\text{due}} = \sum_{k=1}^P A_k S_{XY_k}$$

$$S_{\text{about}} = S_{YY} - S_{\text{due}}$$

(1) and (2) are printed in the Analysis of Covariance Table.

Step 5. Standard Errors of Regression Coefficients and computed t - VALUES

<u>STANDARD ERRORS</u>	<u>COMPUTED t - VALUES</u>
ERROR: $SE(B_k) = \sqrt{E_{\text{about}}} \cdot E_{kk}$	$t_k = \frac{B_k}{SE(B_k)}$
TOTAL: $SE(A_k) = \sqrt{S_{\text{about}}} \cdot S_{kk}$	$t_k = \frac{A_k}{SE(A_k)}$

These and (1) and (3) from Step 3 are printed in the output under the heading TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES.

Step 6. Adjusted Means and Standard Errors of Adjusted Means

(1) Adjusted Means

$$\text{ADJ } (Y_{i.}) = Y_{i.} - \sum_{m=1}^P B_m (X_{i.m} - X_{..m})$$

(2) Standard Errors of Adjusted Means


$$\text{SE}(\text{ADJ } Y_{i.}) = \left\{ E_{\text{due}} \left[\frac{1}{n_i} + \sum_{k=1}^P \sum_{m=1}^P (X_{i.k} - X_{..k}) E_{km} (X_{i.m} - X_{..m}) \right] \right\}^{1/2}$$

These are printed in the output under the heading, Table of Adjusted Means and Standard Errors.

D I S T R I B U T I O N L I S T

Report No. NADC-77036-60

AIRTASK No. A5365360/001F/TWSL7/00000

	<u>No. of Copies</u>
NAVAIR (AIR-00D4)	8
(2 for retention)	
(2 for AIR-53634)	
(4 for AIR-53634C)	
DTIC	12 
NAVAIRDEVCON, Warminster, PA	18
(3 for 813)	
(2 for 60014)	
(1 for 605)	
(1 for 605DF)	
(3 for 6051)	
(1 for 6052)	
(1 for 6052:Caddy)	
(6 for 6052:Franz)	